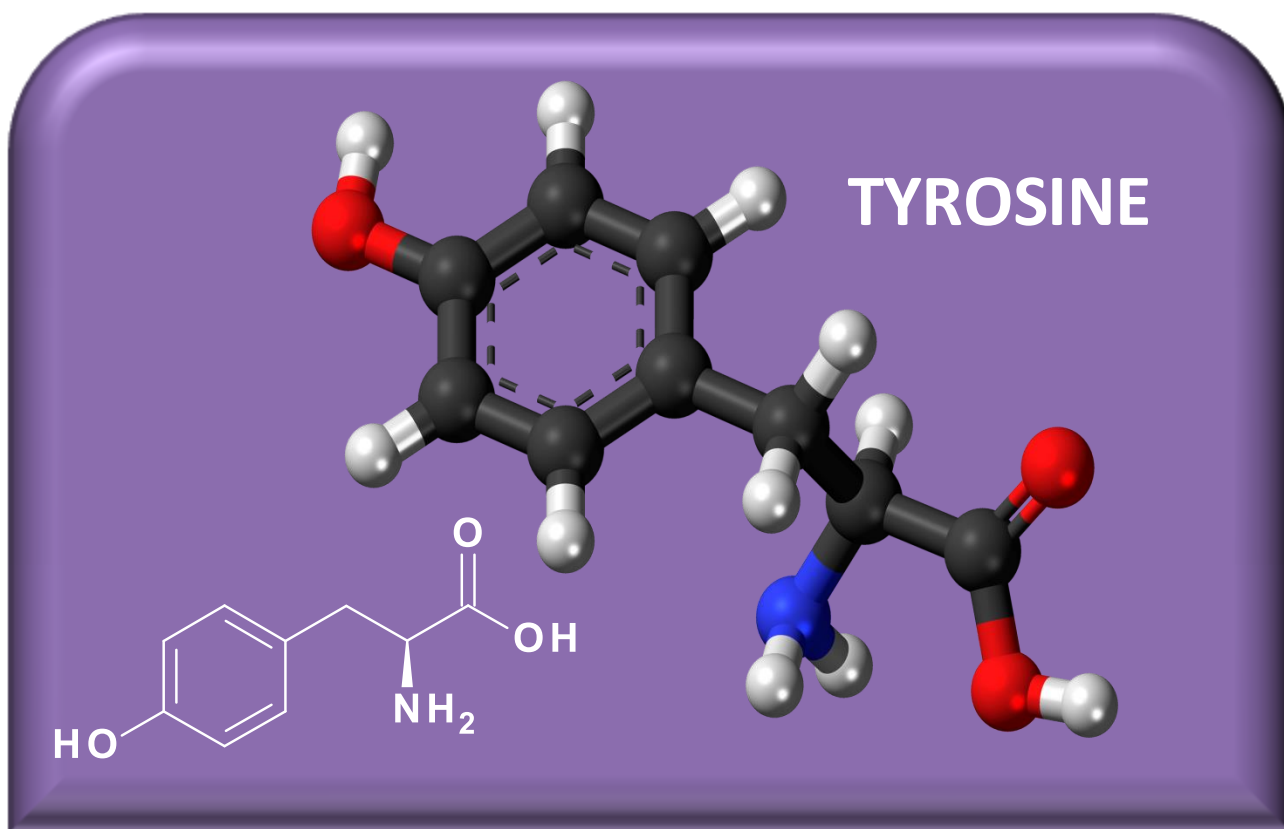


TYROSINE & DERIVATIVES

Functionalized Hydrolysable Compounds



EB Bezwada Biomedical, LLC

www.bezwadabiomedical.com

Message from President & CEO

15 Ilene Court
Hillsborough, New Jersey 08844
www.bezwadabiomedical.com



Think Absorbable. Think Bezwada Biomedical

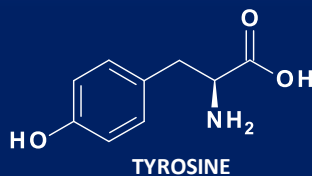
At Bezwada Biomedical, we understand the challenges and risks involved in bringing highly differentiated and technically advanced bioabsorbable product to the market. By combining our years of experience and unequaled expertise in developing absorbable polymers, we evaluate the individual needs of our customers and develop smart, value added solutions ideally matched to their end-use requirements.

We invite you to look upon us and our catalog as a resource for not only absorbable monomers, macromers and polymers but also information and ideas. With our exciting patent pending absorbable technology platforms, we would like to help our customers to get ahead of the competition.

What distinguishes us from our competitors is that in addition to R&D facilities in USA, we have state-of-the-art custom synthesis, upscaling, analytical, contract research and manufacturing facility located in India. This enables us to develop, manufacture and deliver high quality and highly differentiated polymeric biomaterials at a reduced cost.

We are ready to work with you today, and the sooner we begin collaborating, the quicker you can expand your technology platform and product portfolio. In addition, our ongoing research and development work promises the potential for even more exciting opportunities. So contact us today to discuss how we can meet your current needs and work together for a better tomorrow.

Rao S Bezwada, Ph.D.



Tyrosine is a non essential amino acid synthesized from phenylalanine plays various important role in the body. Tyrosine is a precursor of important neurotransmitters including serotonin, dopamine, and nor epinephrine. These neurotransmitters are responsible for functions like memory, mood, appetite, and muscular coordination. Tyrosine also helps produce melanin, the pigment responsible for hair and skin color. It is also essential for normal functioning of adrenal, thyroid, and pituitary glands which makes regulating hormones. Tyrosine is involved in the structure of almost every protein in the body.

1.0 Functionalized Amino acid monomers

The past 20 years have seen intensive exploration of synthetic polymers derived from naturally occurring L-amino acids such as poly (amino acids), pseudo-poly (amino acids) and copolymers of amino acids and non-amino acids as biomaterials for various biomedical applications.

There are primarily two reasons for the interest in L-amino acid derived polymers for biomedical applications

- The polymers are degradable under physiological conditions into amino-acids which are building blocks of proteins
- These polymers can be regarded as analogs of natural tissue

Amino acid based polymers developed and studied so far for biomedical applications display either very slow or uncontrollable in vivo hydrolytic degradation profiles. Many of them have marginal engineering properties. This poses major obstacles for practical applications of these polymers for biomedical applications.

In order to overcome these obstacles while addressing the unmet needs of our customers, we have developed functionalized amino acid monomers. These monomers were prepared by functionalizing amino acids such as Tyrosine with safe and biocompatible molecules such as glycolic acid, lactic acid, caprolactone and p-dioxanone. These safe and biocompatible molecules are the key components of majority of absorbable medical devices ranging from sutures, staples, orthopedic screws and implantable surgical devices to tissue engineering scaffolds. **Figure 1 and 2** below depicts the structure of some of the functionalized Tyrosine monomers respectively, developed by our company.

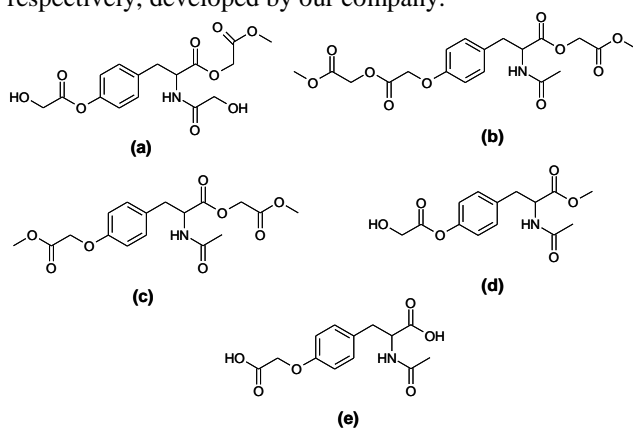


Figure 1 Selected examples of functionalized Tyrosine monomers with varying hydrolytic degradation rates

2.0 Hydrolysable Polymers from Functionalized Amino Acids

The functionalized amino acid monomers were used to synthesize the hydrolytically degradable polymers with varying hydrolytic degradation profiles as well as physical and mechanical properties. For example, functionalized Tyrosine monomers depicted in Figures 1 (b), (c) and (e) were used to prepare hydrolytically degradable polymers depicted in Figures 3 (a) (b) and (c) respectively via condensation polymerization with diol such as ethylene glycol. Functionalized amino acid monomers depicted in Figures 1 (a) and (e) were used to prepare hydrolytically degradable polymers depicted in Figures 3 (d) and (e) respectively via self-condensation polymerization.

These polymers have varying hydrolytic degradation rates. For example, polymer derived from functionalized monomer depicted in Figure 3(b) will hydrolyze faster than the one derived from functionalized monomer depicted in Figure 3(c) and 1(e). This is attributed to the higher number of glycolic acid based repeat units in the main chain of the polymer depicted in figure 3(a) in contrast to the polymers depicted in figure 3(b) and 3(c). Similarly, the hydrolytic degradation rates of these polymers can also be varied by varying the safe and biocompatible molecule that is used to functionalize the amino acid. For example, polymer derived from caprolactone-functionalized amino acid will hydrolyze at a much slower rate than the polymer derived from glycolic acid functionalized amino acid. Furthermore, variation in the chain length of diols used to synthesize these polymers will also enable us to vary the hydrolytic degradation rates of the polymers

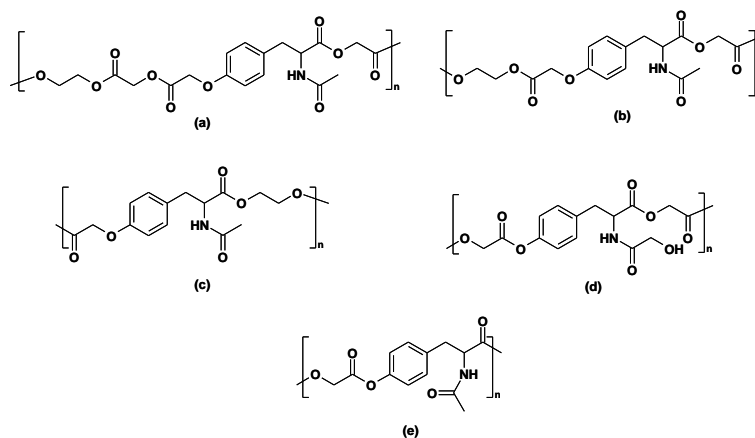


Figure 3 Selected examples of functionalized Tyrosine monomers with varying hydrolytic degradation rates

These polymers can be used in various biomedical applications such as controlled drug delivery, tunable release of biologically active compounds and antimicrobial agents, wound healing and closure and tissue engineering.

3.0 Summary

- At Bezwada Biomedical, we have developed a number of functionalized amino acid monomers including functionalized Tyrosine. They were prepared by functionalization of tyrosine with safe and biocompatible molecules such as glycolic acid, lactic acid, caprolactone and p-dioxanone.
- These functionalized tyrosine monomers and polymers therefrom have different as well as tunable hydrolytic degradation profiles.
- These hydrolysable functionalized amino acid monomers will find use in the preparation of a number of linear or branched absorbable polymers with potential applications in controlled delivery of drugs and bioactive agents; wound healing, adhesion prevention barriers, stents and stent coatings and sutures.

Contact Us

For further information on how we can help you engineer your success, please contact us at info@bezwadabiomedical.com or visit us at www.bezwadabiomedical.com

References:

1. Bezwada, Rao S., US Patent No. 8,519,175
2. Bezwada, Rao S., US Patent No. 8,519,156
3. Bezwada, Rao S., US Patent No. 8,461,372
4. Bezwada, Rao S., US Patent No. 8,436,201
5. Bezwada, Rao S., US Patent No. 8,367,108
6. Bezwada, Rao S., US Patent No. 8,309,754
7. Bezwada, Rao S., US Patent No. 8,288,505
8. Bezwada, Rao S., US Patent No. 8,093,420
9. Bezwada, Rao S., US Patent No. 7,935,843

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Bezwada Biomedical LLC
15 Ilene Court, Suite 1
Hillsborough, NJ 08844 U.S.A.

Telephone: (908) 281-7529
e-mail: info@bezwadabiomedical.com
www.bezwadabiomedical.com

Fax: (908) 359-1179

Specify the chemical name, the catalog number, the quantity and your purchase order number.

Terms and conditions of sale:

Terms are F.O.B. Hillsborough, New Jersey. Net 10 days. Prices shown are in U.S. dollars and are subject to change. All orders are insured at the buyers' expense. Applicable taxes and shipping charges will be added to the invoice.

Discounting information:

Please inquire for substantial savings on bulk quantities or standing annual requirements.

Liability:

Some of the chemicals listed may be toxic or otherwise hazardous, and they should be handled by qualified individuals trained in laboratory procedures. The information and data given in this catalog are correct to the best of our knowledge, but their accuracy is not guaranteed. Bezwada Biomedical LLC will not be responsible for any loss or damage involving the use of our chemicals or products beyond the purchase price.

No returns are accepted without prior written authorization, unless we made an error in shipment.

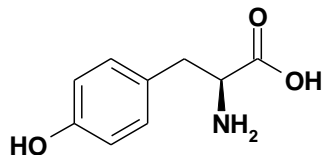
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All compounds listed in this catalog are for research and development purposes only. They may not be used as drugs, food additives, cosmetics, household chemicals, or for any other non-laboratory purpose.

Delivery:

Period of delivery will be given upon receipt of an inquiry or order.

Functionalized Tyrosine



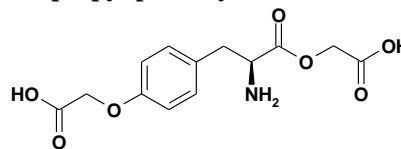
Tyrosine

19-3466

2-[4-[(2S)-2-Amino-3-(carboxymethoxy)-3-oxo-propyl]phenoxy]acetic acid

C₁₃H₁₅NO₇

MW 297.26

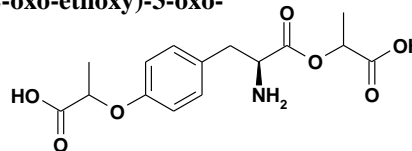


19-3467

2-[4-[(2S)-2-Amino-3-(2-hydroxy-1-methyl-2-oxo-ethoxy)-3-oxo-propyl]phenoxy]propanoic acid

C₁₅H₁₉NO₇

MW 325.31

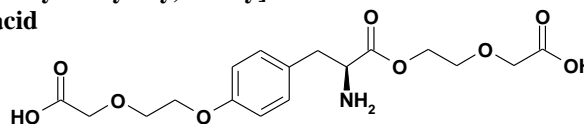


19-3468

2-[2-[4-[(2S)-2-Amino-3-[2-(carboxymethoxy)ethoxy]-3-oxo-propyl]phenoxy]ethoxy]acetic acid

C₁₇H₂₃NO₉

MW 385.36

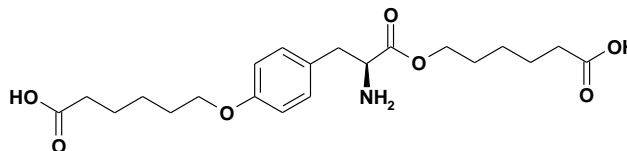


19-3469

6-[4-[(2S)-2-Amino-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]phenoxy]hexanoic acid

C₂₁H₃₁NO₇

MW 409.47

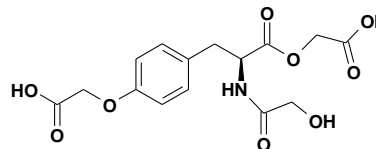


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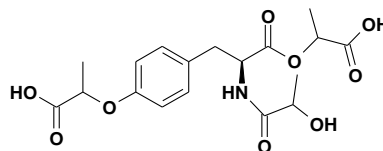
2-[4-[(2S)-3-(Carboxymethoxy)-2-[(2-hydroxyacetyl)amino]-3-oxo-propyl]phenoxy]acetic acid

C₁₅H₁₇NO₉

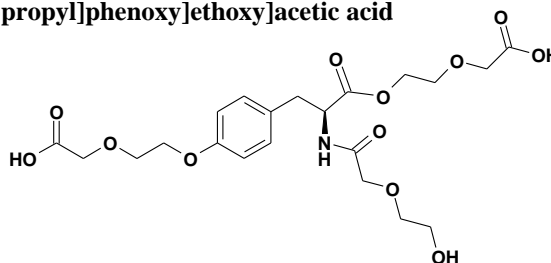
MW 355.30



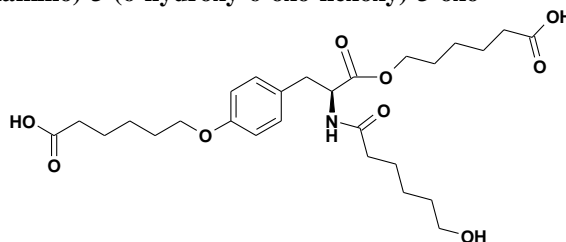
19-3471 **2-[4-[(2S)-3-(2-Hydroxy-1-methyl-2-oxo-ethoxy)-2-(2-hydroxypropanoylamino)-3-oxo-propyl]phenoxy]propanoic acid**
C₁₈H₂₃NO₉
MW 397.38



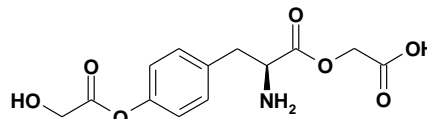
19-3472 **2-[2-[4-[(2S)-3-[2-(Carboxymethoxy)ethoxy]-2-[[2-(2-hydroxyethoxy)acetyl]amino]-3-oxo-propyl]phenoxy]ethoxy]acetic acid**
C₂₁H₂₉NO₁₂
MW 487.45



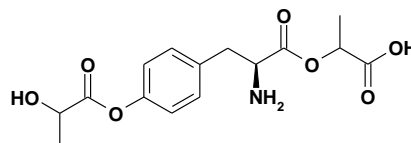
19-3473 **6-[4-[(2S)-2-(6-Hydroxyhexanoylamino)-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]phenoxy]hexanoic acid**
C₂₇H₄₁NO₉
MW 523.62



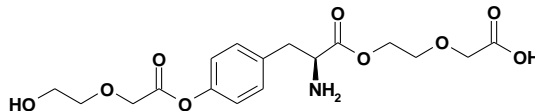
19-3474 **2-[(2S)-2-Amino-3-[4-(2-hydroxyacetyl)oxyphenyl]propanoyl]oxyacetic acid**
C₁₃H₁₅NO₇
MW 297.08



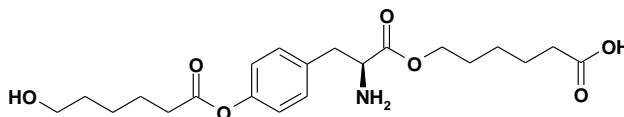
19-3475 **2-[(2S)-2-Amino-3-[4-(2-hydroxypropanoyloxy)phenyl]propanoyl]oxypropanoic acid**
C₁₅H₁₉NO₇
MW 325.11



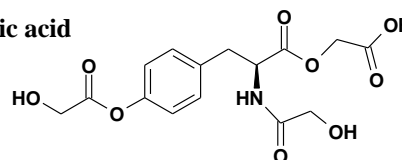
19-3476 **2-[2-[(2S)-2-Amino-3-[4-[2-(2-hydroxyethoxy)acetyl]oxyphenyl]propanoyl]oxyethoxy]acetic acid**
C₁₇H₂₃NO₉
MW 385.13



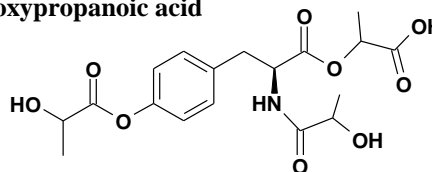
19-3477 **6-[(2S)-2-Amino-3-[4-(6-hydroxyhexanoyloxy)phenyl]propanoyl]oxyhexanoic acid**
C₂₁H₃₁NO₇
MW 409.21



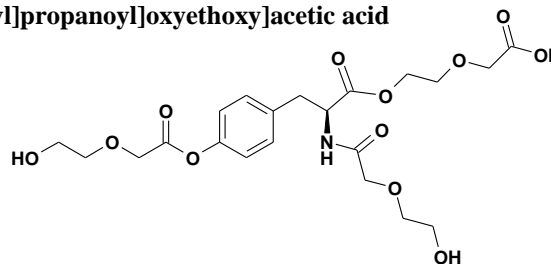
19-3478 **2-[(2S)-2-[(2-Hydroxyacetyl)amino]-3-[4-(2-hydroxyacetyl)oxyphenyl]propanoyl]oxyacetic acid**
C₁₅H₁₇NO₉
MW 355.09



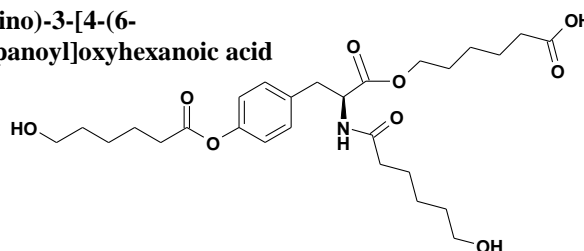
19-3479 **2-[(2S)-2-(2-Hydroxypropanoylamino)-3-[4-(2-hydroxypropanoyloxy)phenyl]propanoyl]oxypropanoic acid**
C₁₈H₂₃NO₉
MW 397.13



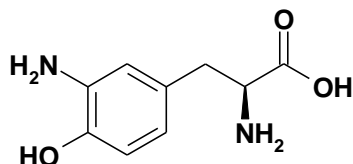
19-3480 **2-[2-[(2S)-2-[[2-(2-Hydroxyethoxy)acetyl]amino]-3-[4-[2-(2-hydroxyethoxy)acetyl]oxyphenyl]propanoyl]oxyethoxy]acetic acid**
C₂₁H₂₉NO₁₂
MW 487.16



19-3481 **6-[(2S)-2-(6-Hydroxyhexanoylamino)-3-[4-(6-hydroxyhexanoyloxy)phenyl]propanoyl]oxyhexanoic acid**
C₂₇H₄₁NO₉
MW 523.27



Functionalized Amino Tyrosine

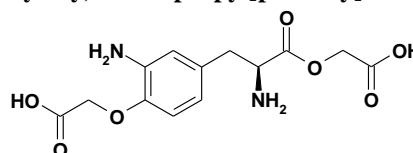


(2S)-2-Amino-3-(3-amino-4-hydroxy-phenyl)propanoic acid

19-3482

2-[2-Amino-4-[(2S)-2-amino-3-(carboxymethoxy)-3-oxo-propyl]phenoxy]acetic acid

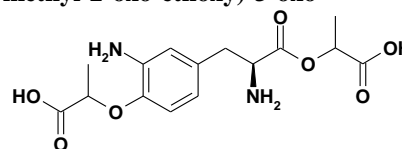
C₁₃H₁₆N₂O₇
MW 312.28



19-3483

2-[2-Amino-4-[(2S)-2-amino-3-(2-hydroxy-1-methyl-2-oxo-ethoxy)-3-oxo-propyl]phenoxy]propanoic acid

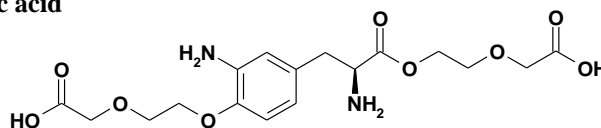
C₁₅H₂₀N₂O₇
MW 340.33



19-3484

2-[2-[2-Amino-4-[(2S)-2-amino-3-[2-(carboxymethoxy)ethoxy]-3-oxo-propyl]phenoxy]ethoxy]acetic acid

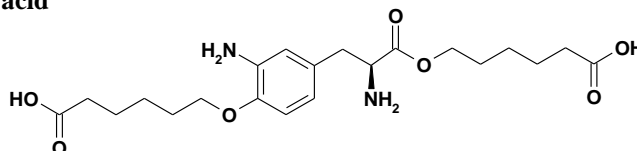
C₁₇H₂₄N₂O₉
MW 400.38



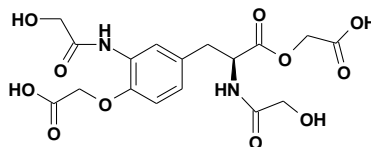
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6-[2-Amino-4-[(2S)-2-amino-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]phenoxy]hexanoic acid

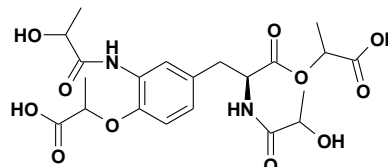
C₂₁H₃₂N₂O₇
MW 424.49



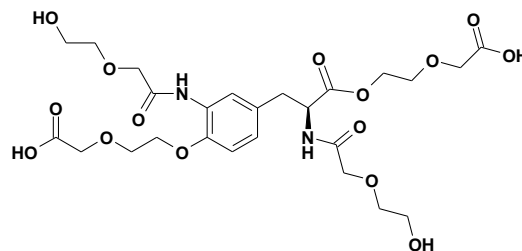
19-3486 **2-[4-[(2S)-3-(Carboxymethoxy)-2-[(2-hydroxyacetyl)amino]-3-oxo-propyl]-2-[(2-hydroxyacetyl)amino]phenoxy]acetic acid**
C₁₇H₂₀N₂O₁₁
MW 428.1



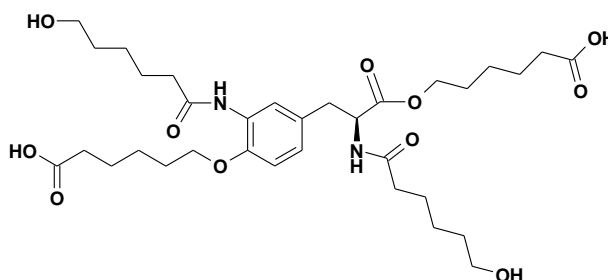
19-3487 **2-[4-[(2S)-3-(2-Hydroxy-1-methyl-2-oxo-ethoxy)-2-(2-hydroxypropanoylamino)-3-oxo-propyl]-2-(2-hydroxypropanoylamino)phenoxy]propanoic acid**
C₂₁H₂₈N₂O₁₁
MW 484.16



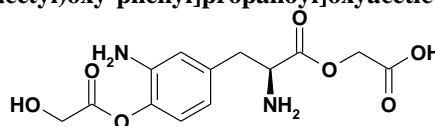
19-3488 **2-[2-[4-[(2S)-3-[2-(Carboxymethoxy)ethoxy]-2-[[2-(2-hydroxyethoxy)acetyl]amino]-3-oxo-propyl]-2-[[2-(2-hydroxyethoxy)acetyl]amino]phenoxy]ethoxy]acetic acid**
C₂₅H₃₆N₂O₁₅
MW 604.21



19-3489 **6-[2-(6-Hydroxyhexanoylamino)-4-[(2S)-2-(6-hydroxyhexanoylamino)-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]phenoxy]hexanoic acid**
C₃₃H₅₂N₂O₁₁
MW 652.35



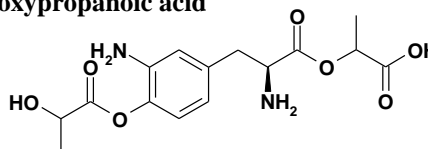
19-3490 **2-[(2S)-2-Amino-3-[3-amino-4-(2-hydroxyacetyl)oxy-phenyl]propanoyl]oxyacetic acid**
C₁₃H₁₆N₂O₇
MW 312.09



19-3491

2-[(2S)-2-Amino-3-[3-amino-4-(2-hydroxypropanoyloxy)phenyl]propanoyl]oxypropanoic acid

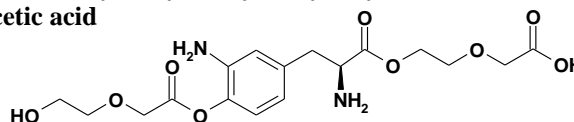
C₁₅H₂₀N₂O₇
MW 340.12



19-3492

2-[2-[(2S)-2-Amino-3-[3-amino-4-[2-(2-hydroxyethoxy)acetyl]oxyphenyl]propanoyl]oxyethoxy]acetic acid

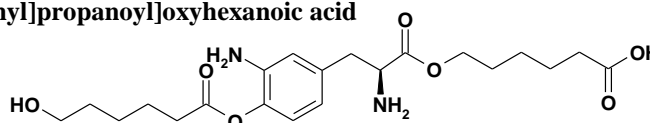
C₁₇H₂₄N₂O₉
MW 400.14



19-3493

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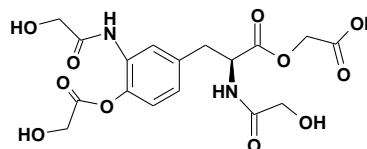
C₂₁H₃₂N₂O₇
MW 424.22



19-3494

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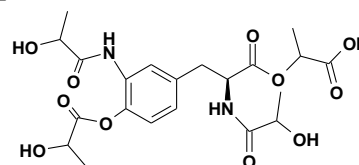
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MW 428.1



19-3495

2-[(2S)-2-(2-Hydroxypropanoylamino)-3-[3-(2-hydroxypropanoylamino)-4-(2-hydroxypropanoyloxy)phenyl]propanoyl]oxypropanoic acid

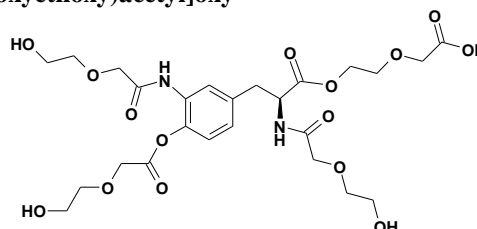
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MW 484.16



19-3496

2-[2-[(2S)-2-[[2-(2-Hydroxyethoxy)acetyl]amino]-3-[3-[[2-(2-hydroxyethoxy)acetyl]amino]-4-[2-(2-hydroxyethoxy)acetyl]oxy-phenyl]propanoyl]oxyethoxy]acetic acid

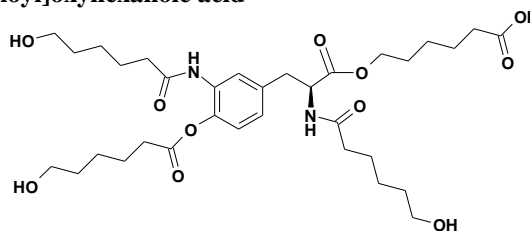
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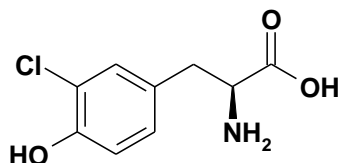
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6-[(2S)-2-(6-Hydroxyhexanoylamino)-3-[3-(6-hydroxyhexanoylamino)-4-(6-hydroxyhexanoyloxy)phenyl]propanoyl]oxyhexanoic acid

C₃₃H₅₂N₂O₁₁
MW 652.35



Functionalized Chloro Tyrosine

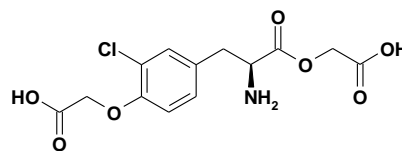


(2S)-2-Amino-3-(3-chloro-4-hydroxy-phenyl)propanoic acid

19-3498

2-[4-[(2S)-2-Amino-3-(carboxymethoxy)-3-oxo-propyl]-2-chloro-phenoxy]acetic acid

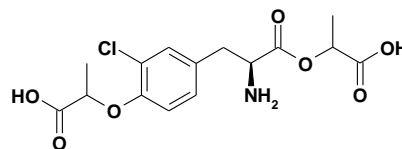
C₁₃H₁₄ClNO₇
MW 331.7



19-3499

2-[4-[(2S)-2-Amino-3-(2-hydroxy-1-methyl-2-oxo-ethoxy)-3-oxo-propyl]-2-chloro-phenoxy]propanoic acid

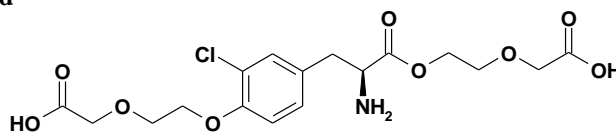
C₁₅H₁₈ClNO₇
MW 359.76



19-3500

2-[2-[4-[(2S)-2-Amino-3-[2-(carboxymethoxy)ethoxy]-3-oxo-propyl]-2-chloro-phenoxy]ethoxy]acetic acid

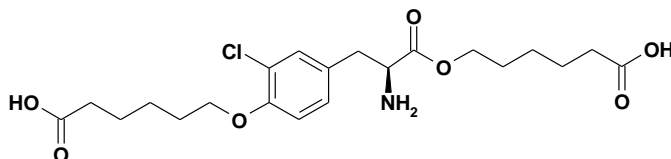
C₁₇H₂₂ClNO₉
MW 419.82



19-3501

6-[4-[(2S)-2-Amino-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]-2-chloro-phenoxy]hexanoic acid

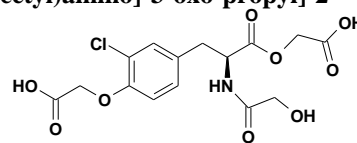
C₂₁H₃₀ClNO₇
MW 443.92



19-3502

2-[4-[(2S)-3-(Carboxymethoxy)-2-[(2-hydroxyacetyl)amino]-3-oxo-propyl]-2-chloro-phenoxy]acetic acid

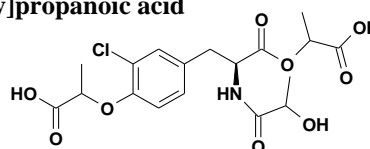
C₁₅H₁₆ClNO₉
MW 389.74



19-3503

2-[2-Chloro-4-[(2S)-3-(2-hydroxy-1-methyl-2-oxo-ethoxy)-2-(2-hydroxypropanoylamino)-3-oxo-propyl]phenoxy]propanoic acid

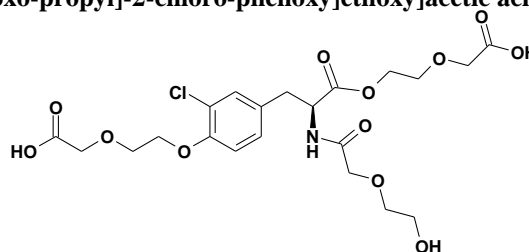
C₁₈H₂₂ClNO₉
MW 431.82



19-3504

2-[2-[4-[(2S)-3-[2-(Carboxymethoxy)ethoxy]-2-[[2-(2-hydroxyethoxy)acetyl]amino]-3-oxo-propyl]-2-chloro-phenoxy]ethoxy]acetic acid

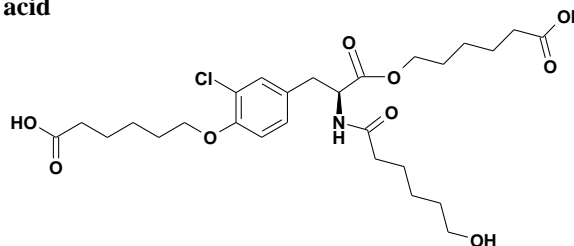
C₂₁H₂₈ClNO₁₂
MW 521.9



19-3505

6-[2-Chloro-4-[(2S)-2-(6-hydroxyhexanoylamino)-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]phenoxy]hexanoic acid

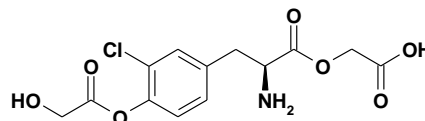
C₂₇H₄₀ClNO₉
MW 558.06



19-3506

2-[(2S)-2-Amino-3-[3-chloro-4-(2-hydroxyacetyl)oxy-phenyl]propanoyl]oxyacetic acid

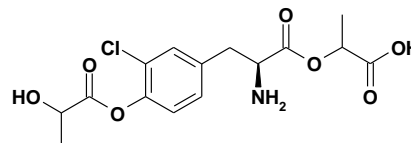
C₁₃H₁₄ClNO₇
MW 331.04



19-3507

2-[(2S)-2-Amino-3-[3-chloro-4-(2-hydroxypropanoyloxy)phenyl]propanoyl]oxypropanoic acid

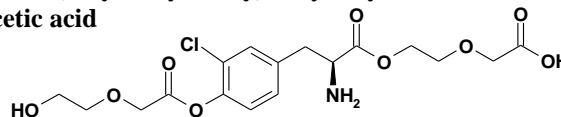
C₁₅H₁₈ClNO₇
MW 359.07



19-3508

2-[2-[(2S)-2-Amino-3-[3-chloro-4-[2-(2-hydroxyethoxy)acetyl]oxy-phenyl]propanoyl]oxyethoxy]acetic acid

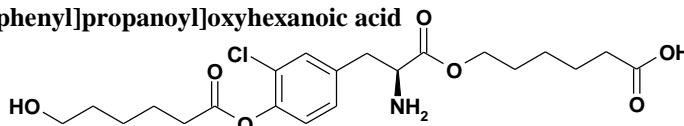
C₁₇H₂₂ClNO₉
MW 419.09



19-3509

6-[(2S)-2-Amino-3-[3-chloro-4-(6-hydroxyhexanoyloxy)phenyl]propanoyl]oxyhexanoic acid

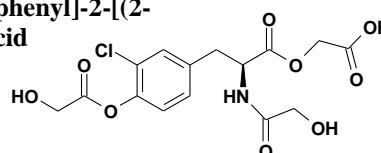
C₂₁H₃₀ClNO₇
MW 443.17



19-3510

2-[(2S)-3-[3-Chloro-4-(2-hydroxyacetyl)oxy-phenyl]-2-[(2-hydroxyacetyl)amino]propanoyl]oxyacetic acid

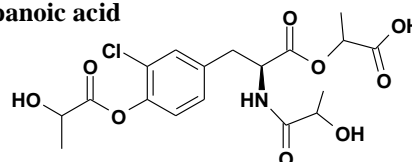
C₁₅H₁₆ClNO₉
MW 389.05



19-3511

2-[(2S)-3-[3-Chloro-4-(2-hydroxypropanoyloxy)phenyl]-2-(2-hydroxypropanoylamino)propanoyl]oxypropanoic acid

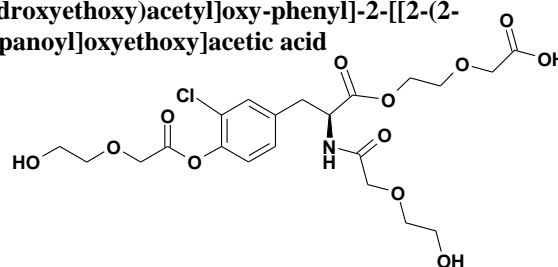
C₁₈H₂₂ClNO₉
MW 431.09



19-3512

2-[2-[(2S)-3-[3-Chloro-4-[2-(2-hydroxyethoxy)acetyl]oxy-phenyl]-2-[[2-(2-hydroxyethoxy)acetyl]amino]propanoyl]oxyethoxy]acetic acid

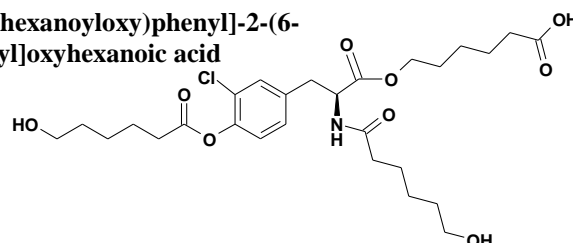
C₂₁H₂₈ClNO₁₂
MW 521.13



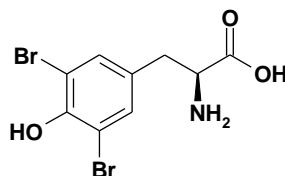
19-3513

6-[(2S)-3-[3-Chloro-4-(6-hydroxyhexanoyloxy)phenyl]-2-(6-hydroxyhexanoylamino)propanoyl]oxyhexanoic acid

C₂₇H₄₀ClNO₉
MW 557.23



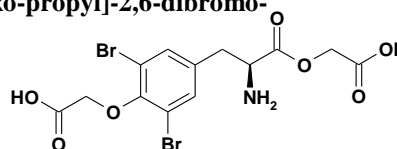
Functionalized Dibromo Tyrosine



(2S)-2-Amino-3-(3,5-dibromo-4-hydroxy-phenyl)propanoic acid

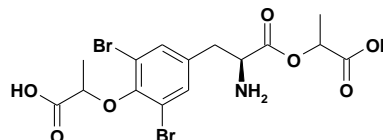
19-3514

2-[4-[(2S)-2-Amino-3-(carboxymethoxy)-3-oxo-propyl]-2,6-dibromo-phenoxy]acetic acid
C₁₃H₁₃Br₂NO₇
MW 452.9



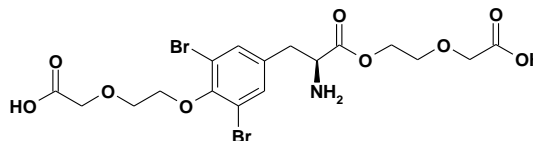
19-3515

2-[4-[(2S)-2-Amino-3-(2-hydroxy-1-methyl-2-oxo-ethoxy)-3-oxo-propyl]-2,6-dibromo-phenoxy]propanoic acid
C₁₅H₁₇Br₂NO₇
MW 480.93



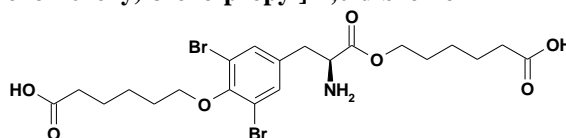
19-3516

2-[2-[4-[(2S)-2-Amino-3-[2-(carboxymethoxy)ethoxy]-3-oxo-propyl]-2,6-dibromo-phenoxy]ethoxy]acetic acid
C₁₇H₂₁Br₂NO₉
MW 540.95



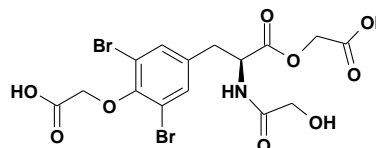
19-3517

6-[4-[(2S)-2-Amino-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]-2,6-dibromo-phenoxy]hexanoic acid
C₂₁H₂₉Br₂NO₇
MW 565.03



19-3518

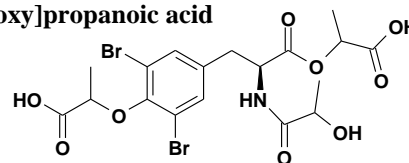
2-[2,6-Dibromo-4-[(2S)-3-(carboxymethoxy)-2-[(2-hydroxyacetyl)amino]-3-oxo-propyl]phenoxy]acetic acid
C₁₅H₁₅Br₂NO₉
MW 513.09



19-3519

2-[2,6-Dibromo-4-[(2S)-3-(2-hydroxy-1-methyl-2-oxo-ethoxy)-2-(2-hydroxypropanoylamino)-3-oxo-propyl]phenoxy]propanoic acid

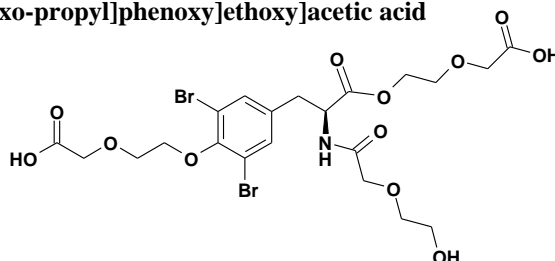
C₁₈H₂₁Br₂NO₉
MW 555.17



19-3520

2-[2-[2,6-Dibromo-4-[(2S)-3-[2-(carboxymethoxy)ethoxy]-2-[[2-(2-hydroxyethoxy)acetyl]amino]-3-oxo-propyl]phenoxy]ethoxy]acetic acid

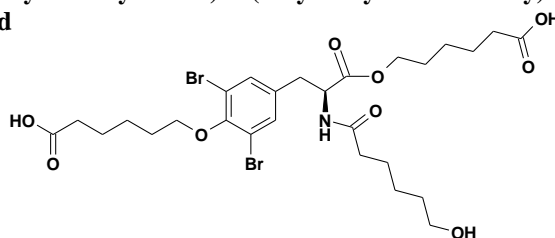
C₂₁H₂₇Br₂NO₁₂
MW 642.99



19-3521

6-[2,6-Dibromo-4-[(2S)-2-(6-hydroxyhexanoylamino)-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]phenoxy]hexanoic acid

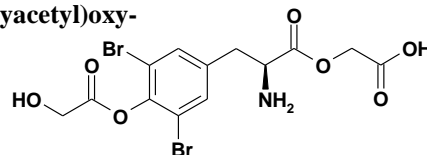
C₂₇H₃₉Br₂NO₉
MW 679.09



19-3522

2-[(2S)-2-Amino-3-[3,5-dibromo-4-(2-hydroxyacetyl)oxyphenyl]propanoyl]oxyacetic acid

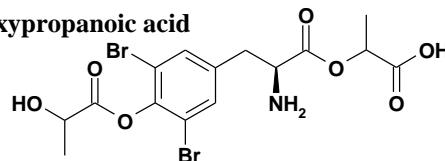
C₁₃H₁₃Br₂NO₇
MW 452.9



19-3523

2-[(2S)-2-Amino-3-[3,5-dibromo-4-(2-hydroxypropanoyloxy)phenyl]propanoyl]oxypropanoic acid

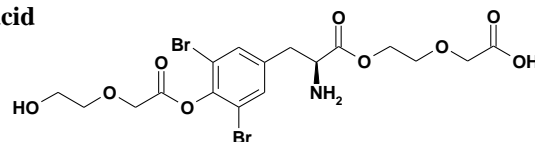
C₁₅H₁₇Br₂NO₇
MW 480.93



19-3524

2-[2-[(2S)-2-Amino-3-[3,5-dibromo-4-[2-(2-hydroxyethoxy)acetyl]oxyphenyl]propanoyl]oxyethoxy]acetic acid

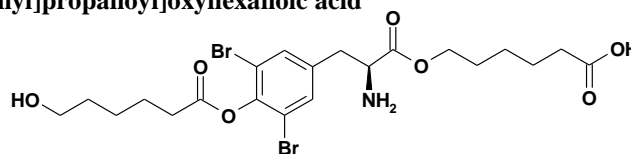
C₁₇H₂₁Br₂NO₉
MW 540.95



19-3525

6-[(2S)-2-Amino-3-[3,5-dibromo-4-(6-hydroxyhexanoyloxy)phenyl]propanoyl]oxyhexanoic acid

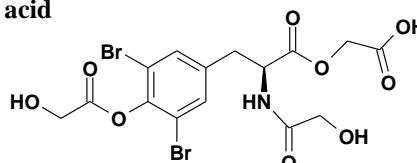
C₂₁H₂₉Br₂NO₇
MW 565.03



19-3526

2-[(2S)-3-[3,5-Dibromo-4-(2-hydroxyacetyl)oxy-phenyl]-2-[(2-hydroxyacetyl)amino]propanoyl]oxyacetic acid

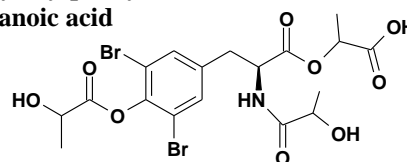
C₁₅H₁₅Br₂O₉
MW 510.91



19-3527

2-[(2S)-3-[3,5-Dibromo-4-(2-hydroxypropanoyloxy)phenyl]-2-(2-hydroxypropanoylamino)propanoyl]oxypropanoic acid

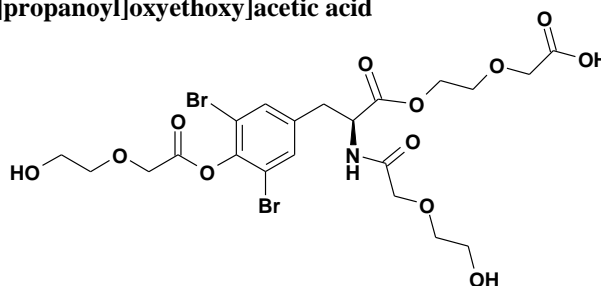
C₁₈H₂₁Br₂NO₉
MW 552.95



19-3528

2-2-[(2S)-3-[3,5-Dibromo-4-[2-(2-hydroxyethoxy)acetyl]oxy-phenyl]-2-[[2-hydroxyethoxy)acetyl]amino]propanoyl]oxyethoxy]acetic acid

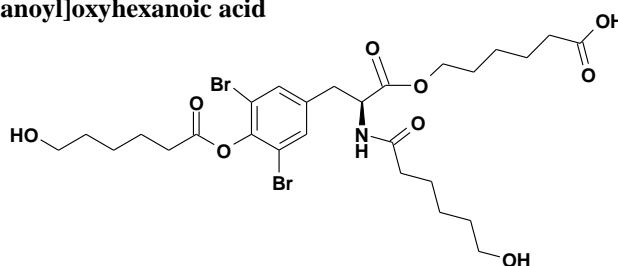
C₂₁H₂₇Br₂NO₁₂
MW 642.99



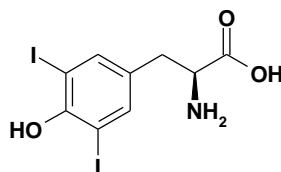
19-3529

6-[(2S)-3-[3,5-Dibromo-4-(6-hydroxyhexanoyloxy)phenyl]-2-(6-hydroxyhexanoylamino)propanoyl]oxyhexanoic acid

C₂₇H₃₉Br₂NO₉
MW 679.09

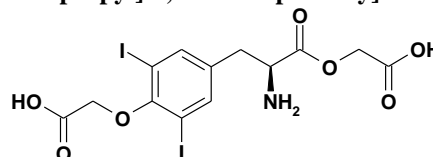


Functionalized Diiodo Tyrosine

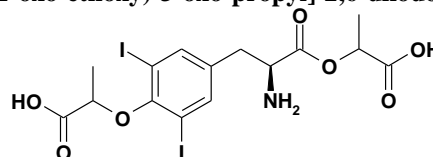


(2S)-2-Amino-3-(4-hydroxy-3,5-diiodo-phenyl)propanoic acid

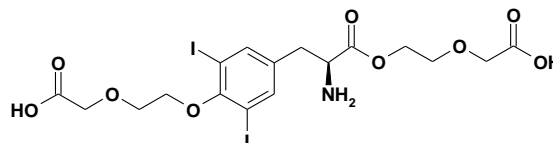
19-3530 **2-[4-[(2S)-2-Amino-3-(carboxymethoxy)-3-oxo-propyl]-2,6-diiodo-phenoxy]acetic acid**
C₁₃H₁₃I₂NO₇
MW 548.87



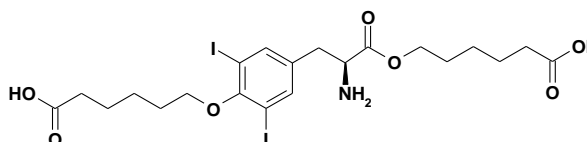
19-3531 **2-[4-[(2S)-2-Amino-3-(2-hydroxy-1-methyl-2-oxo-ethoxy)-3-oxo-propyl]-2,6-diiodo-phenoxy]propanoic acid**
C₁₅H₁₇I₂NO₇
MW 576.9



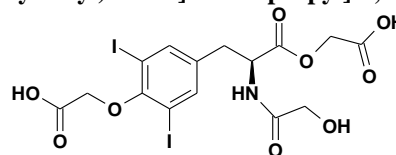
19-3532 **2-[2-[4-[(2S)-2-Amino-3-[2-(carboxymethoxy)ethoxy]-3-oxo-propyl]-2,6-diiodo-phenoxy]ethoxy]acetic acid**
C₁₇H₂₁I₂NO₉
MW 636.93



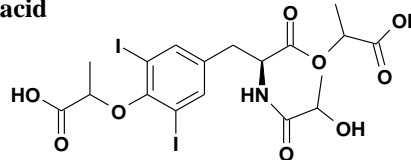
19-3533 **6-[4-[(2S)-2-Amino-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]-2,6-diiodo-phenoxy]hexanoic acid**
C₂₁H₂₉I₂NO₇
MW 661



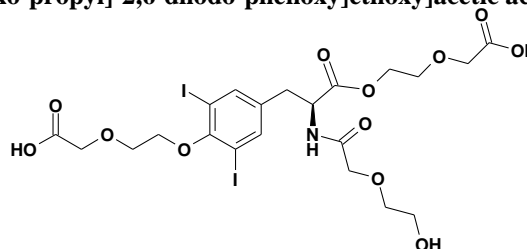
19-3534 **2-[4-[(2S)-3-(Carboxymethoxy)-2-[(2-hydroxyacetyl)amino]-3-oxo-propyl]-2,6-diiodo-phenoxy]acetic acid**
C₁₅H₁₅I₂NO₉
MW 606.88



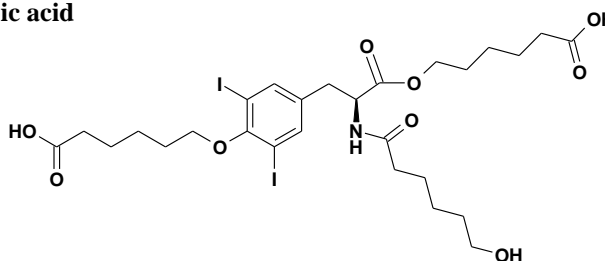
19-3535 2-[4-[(2S)-3-(2-Hydroxy-1-methyl-2-oxo-ethoxy)-2-(2-hydroxypropanoylamino)-3-oxo-propyl]-2,6-diiodo-phenoxy]propanoic acid
C₁₈H₂₁I₂NO₉
MW 648.93



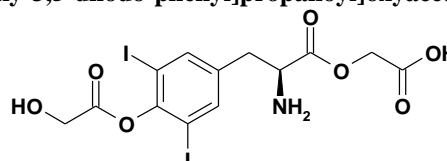
19-3536 2-[2-[4-[(2S)-3-[2-(Carboxymethoxy)ethoxy]-2-[[2-(2-hydroxyethoxy)acetyl]amino]-3-oxo-propyl]-2,6-diiodo-phenoxy]ethoxy]acetic acid
C₂₁H₂₇I₂NO₁₂
MW 739.25



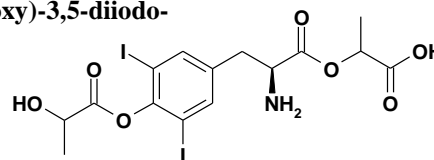
19-3537 6-[4-[(2S)-2-(6-Hydroxyhexanoylamino)-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]-2,6-diiodo-phenoxy]hexanoic acid
C₂₇H₃₉I₂NO₉
MW 775.41



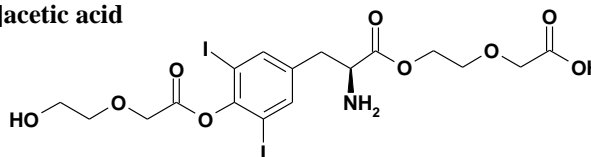
19-3538 2-[(2S)-2-Amino-3-[4-(2-hydroxyacetyl)oxy-3,5-diiodo-phenyl]propanoyl]oxyacetic acid
C₁₃H₁₃I₂NO₇
MW 548.87



19-3539 2-[(2S)-2-Amino-3-[4-(2-hydroxypropanoyloxy)-3,5-diiodo-phenyl]propanoyl]oxypropanoic acid
C₁₅H₁₇I₂NO₇
MW 576.9



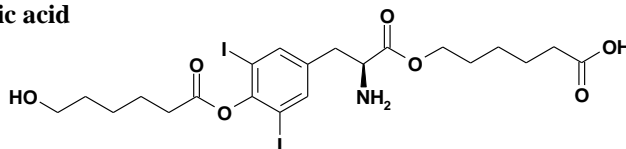
19-3540 2-[2-[(2S)-2-Amino-3-[4-[2-(2-hydroxyethoxy)acetyl]oxy-3,5-diiodo-phenyl]propanoyl]oxyethoxy]acetic acid
C₁₇H₂₁I₂NO₉
MW 636.9



19-3541

6-[(2S)-2-Amino-3-[4-(6-hydroxyhexanoyloxy)-3,5-diiodo-phenyl]propanoyl]oxyhexanoic acid

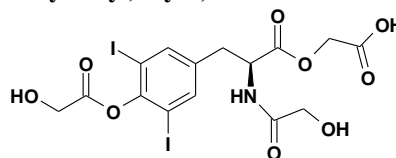
C₂₁H₂₉I₂NO₇
MW 661



19-3542

2-[(2S)-2-[(2-Hydroxyacetyl)amino]-3-[4-(2-hydroxyacetyl)oxy-3,5-diiodo-phenyl]propanoyl]oxyacetic acid

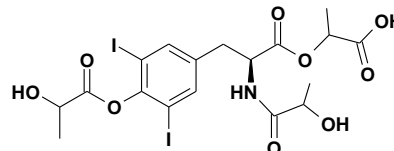
C₁₅H₁₅I₂NO₉
MW 606.88



19-3543

2-[(2S)-2-(2-Hydroxypropanoylamino)-3-[4-(2-hydroxypropanoyloxy)-3,5-diiodo-phenyl]propanoyl]oxypropanoic acid

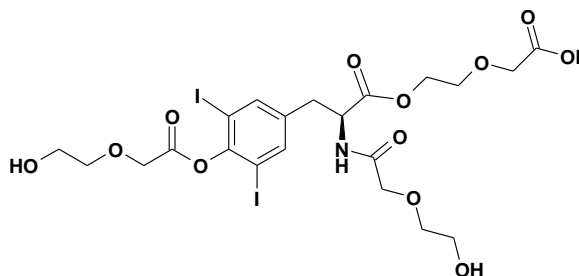
C₁₈H₂₁I₂NO₉
MW 648.93



19-3544

2-[2-[(2S)-2-[[2-(2-Hydroxyethoxy)acetyl]amino]-3-[4-[2-(2-hydroxyethoxy)acetyl]oxy-3,5-diiodo-phenyl]propanoyl]oxyethoxy]acetic acid

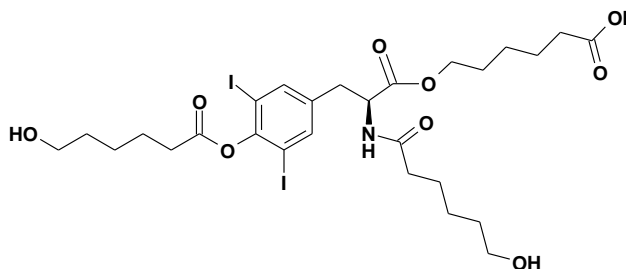
C₂₁H₂₇I₂NO₁₂
MW 738.96



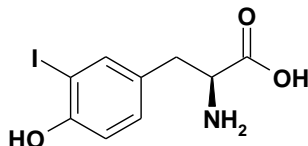
19-3545

6-[(2S)-2-(6-Hydroxyhexanoylamino)-3-[4-(6-hydroxyhexanoyloxy)-3,5-diiodo-phenyl]propanoyl]oxyhexanoic acid

C₂₇H₃₉I₂NO₉
MW 775.41



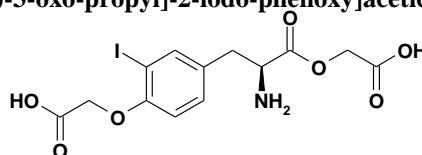
Functionalized Iodo Tyrosine



(2S)-2-Amino-3-(4-hydroxy-3-iodo-phenyl)propanoic acid

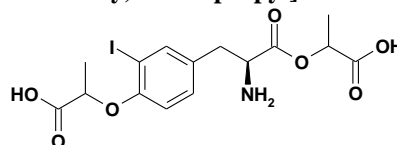
19-3546

2-[4-[(2S)-2-Amino-3-(carboxymethoxy)-3-oxo-propyl]-2-iodo-phenoxy]acetic acid
C₁₃H₁₄INO₇
MW 422.98



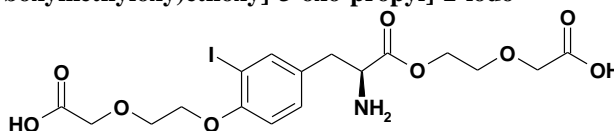
19-3547

2-[4-[(2S)-2-Amino-3-(2-hydroxy-1-methyl-2-oxo-ethoxy)-3-oxo-propyl]-2-iodo-phenoxy]propanoic acid
C₁₅H₁₈INO₇
MW 451.21



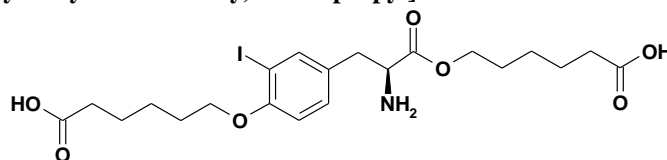
19-3548

2-[2-[4-[(2S)-2-Amino-3-[2-(carboxymethoxy)ethoxy]-3-oxo-propyl]-2-iodo-phenoxy]ethoxy]acetic acid
C₁₇H₂₂INO₉
MW 511.03



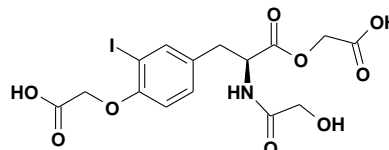
19-3549

6-[4-[(2S)-2-Amino-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]-2-iodo-phenoxy]hexanoic acid
C₂₁H₃₀INO₇
MW 535.1

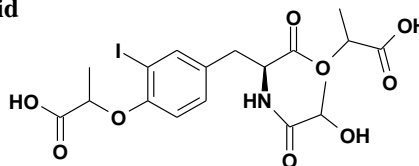


19-3550

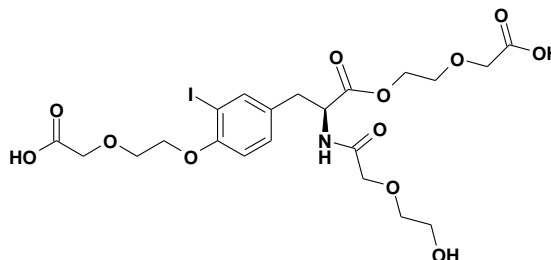
2-[4-[(2S)-3-(Carboxymethoxy)-2-[(2-hydroxyacetyl)amino]-3-oxo-propyl]-2-iodo-phenoxy]acetic acid
C₁₅H₁₆INO₉
MW 480.98



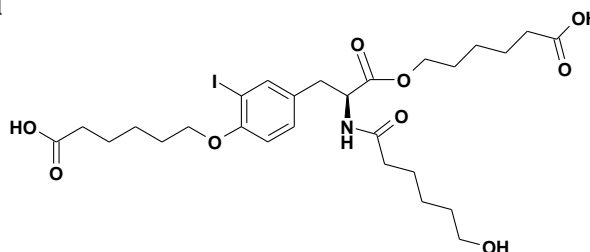
19-3551 **2-[4-[(2S)-3-(2-Hydroxy-1-methyl-2-oxo-ethoxy)-2-(2-hydroxypropanoylamino)-3-oxo-propyl]-2-iodo-phenoxy]propanoic acid**
C₁₈H₂₂INO₉
MW 533.03



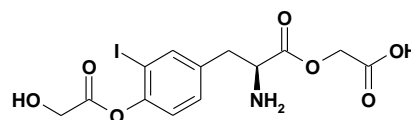
19-3552 **2-[2-[4-[(2S)-3-[2-(Carboxymethoxy)ethoxy]-2-[[2-(2-hydroxyethoxy)acetyl]amino]-3-oxo-propyl]-2-iodo-phenoxy]ethoxy]acetic acid**
C₂₁H₂₈INO₁₂
MW 613.35



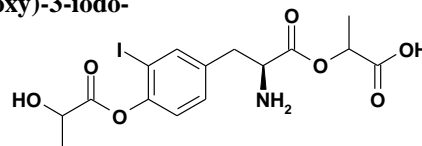
19-3553 **6-[4-[(2S)-2-(6-Hydroxyhexanoylamino)-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]-2-iodo-phenoxy]hexanoic acid**
C₂₇H₄₀INO₉
MW 649.17



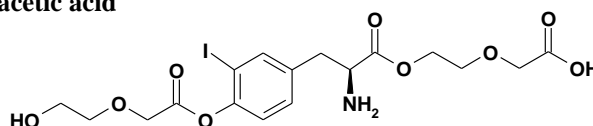
19-3554 **2-[(2S)-2-Amino-3-[4-(2-hydroxyacetyl)oxy-3-iodo-phenyl]propanoyl]oxyacetic acid**
C₁₃H₁₄INO₇
MW 422.98



19-3555 **2-[(2S)-2-Amino-3-[4-(2-hydroxypropanoyloxy)-3-iodo-phenyl]propanoyl]oxypropanoic acid**
C₁₅H₁₈INO₇
MW 451.01



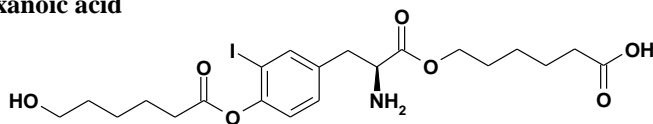
19-3556 **2-[2-[(2S)-2-Amino-3-[4-[2-(2-hydroxyethoxy)acetyl]oxy-3-iodo-phenyl]propanoyl]oxyethoxy]acetic acid**
C₁₇H₂₂INO₉
MW 511.03



19-3557

6-[(2S)-2-Amino-3-[4-(6-hydroxyhexanoyloxy)-3-iodo-phenyl]propanoyl]oxyhexanoic acid

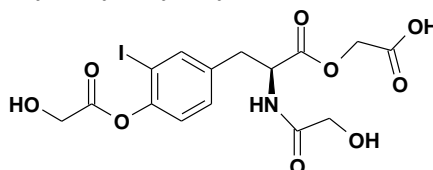
C₂₁H₃₀INO₇
MW 535.10



19-3558

2-[(2S)-2-[(2-Hydroxyacetyl)amino]-3-[4-(2-hydroxyacetyl)oxy-3-iodo-phenyl]propanoyl]oxyacetic acid

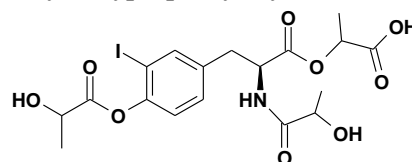
C₁₅H₁₆INO₉
MW 480.98



19-3559

2-[(2S)-2-(2-Hydroxypropanoylamino)-3-[4-(2-hydroxypropanoyloxy)-3-iodo-phenyl]propanoyl]oxypropanoic acid

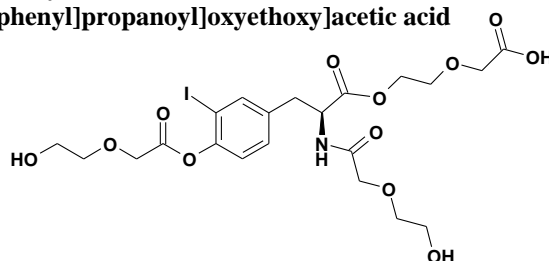
C₁₈H₂₂INO₉
MW 523.03



19-3560

2-[2-[(2S)-2-[[2-(2-hydroxyethoxy)acetyl]amino]-3-[4-[2-(2-hydroxyethoxy)acetyl]oxy-3-iodo-phenyl]propanoyl]oxyethoxy]acetic acid

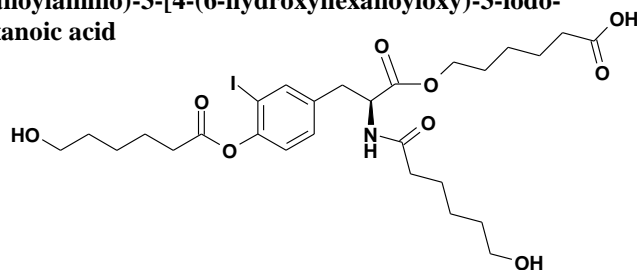
C₂₁H₂₈INO₁₂
MW 613.06



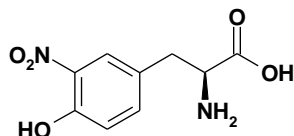
19-3561

6-[(2S)-2-(6-Hydroxyhexanoylamino)-3-[4-(6-hydroxyhexanoyloxy)-3-iodo-phenyl]propanoyl]oxyhexanoic acid

C₂₇H₄₀INO₉
MW 649.17

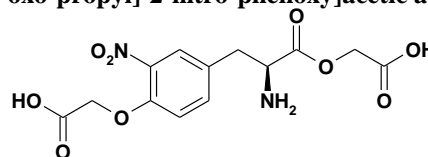


Functionalized Nitro Tyrosine

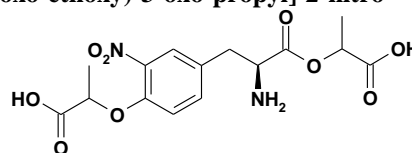


(2S)-2-Amino-3-(4-hydroxy-3-nitro-phenyl)propanoic acid

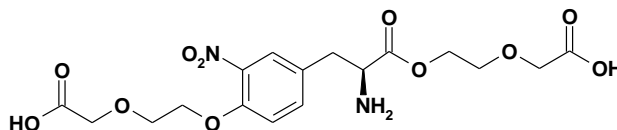
19-3562 2-[4-[(2S)-2-Amino-3-(carboxymethoxy)-3-oxo-propyl]-2-nitro-phenoxy]acetic acid
C₁₃H₁₄N₂O₉
MW 342.06



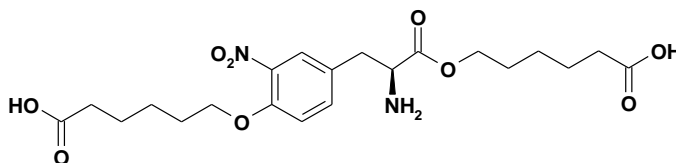
19-3563 2-[4-[(2S)-2-Amino-3-(2-hydroxy-1-methyl-2-oxo-ethoxy)-3-oxo-propyl]-2-nitro-phenoxy]propanoic acid
C₁₅H₁₈N₂O₉
MW 370.31



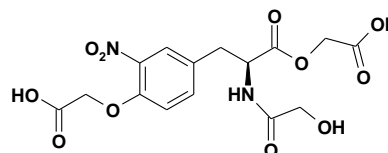
19-3564 2-[2-[4-[(2S)-2-Amino-3-[2-(carboxymethoxy)ethoxy]-3-oxo-propyl]-2-nitro-phenoxy]ethoxy]acetic acid
C₁₇H₂₂N₂O₁₁
MW 430.12



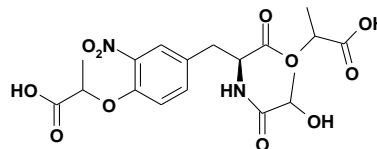
19-3565 6-[4-[(2S)-2-Amino-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]-2-nitro-phenoxy]hexanoic acid
C₂₁H₃₀N₂O₉
MW 454.19



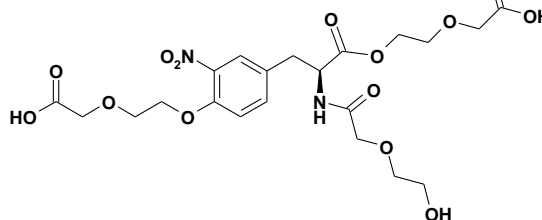
19-3566 2-[4-[(2S)-3-(Carboxymethoxy)-2-[(2-hydroxyacetyl)amino]-3-oxo-propyl]-2-nitro-phenoxy]acetic acid
C₁₅H₁₆N₂O₁₁
MW 400.07



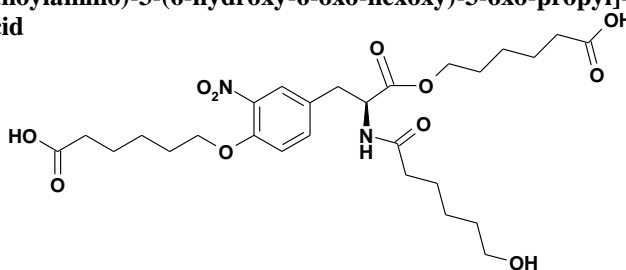
19-3567 2-[4-[(2S)-3-(2-Hydroxy-1-methyl-2-oxo-ethoxy)-2-(2-hydroxypropanoylamino)-3-oxo-propyl]-2-nitro-phenoxy]propanoic acid
C₁₈H₂₂N₂O₁₁
MW 442.12



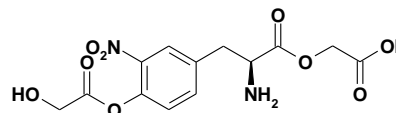
19-3568 2-[2-[4-[(2S)-3-[2-(Carboxymethoxy)ethoxy]-2-[[2-(2-hydroxyethoxy)acetyl]amino]-3-oxo-propyl]-2-nitro-phenoxy]ethoxy]acetic acid
C₂₁H₂₈N₂O₁₄
MW 532.15



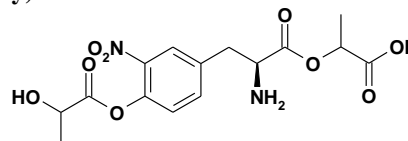
19-3569 6-[4-[(2S)-2-(6-Hydroxyhexanoylamino)-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]-2-nitro-phenoxy]hexanoic acid
C₂₇H₄₀N₂O₁₁
MW 568.26



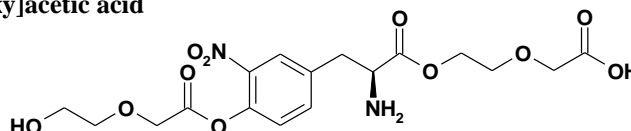
19-3570 2-[(2S)-2-Amino-3-[4-(2-hydroxyacetyl)oxy-3-nitro-phenyl]propanoyl]oxyacetic acid
C₁₃H₁₄N₂O₉
MW 342.06



19-3571 2-[(2S)-2-Amino-3-[4-(2-hydroxypropanoyloxy)-3-nitro-phenyl]propanoyl]oxypropanoic acid
C₁₅H₁₈N₂O₉
MW 370.10



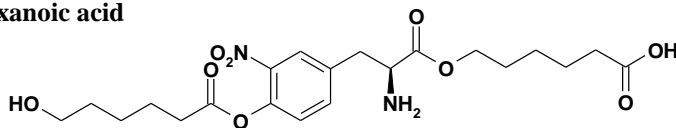
19-3572 2-[2-[(2S)-2-Amino-3-[4-[2-(2-hydroxyethoxy)acetyl]oxy-3-nitro-phenyl]propanoyl]oxyethoxy]acetic acid
C₁₇H₂₂N₂O₁₁
MW 430.12



19-3573

6-[(2S)-2-Amino-3-[4-(6-hydroxyhexanoyloxy)-3-nitro-phenyl]propanoyl]oxyhexanoic acid

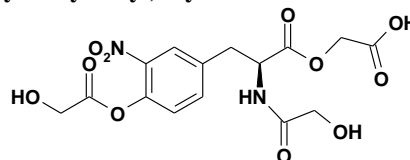
C₂₁H₃₀N₂O₉
MW 454.19



19-3574

2-[(2S)-2-[(2-Hydroxyacetyl)amino]-3-[4-(2-hydroxyacetyl)oxy-3-nitro-phenyl]propanoyl]oxyacetic acid

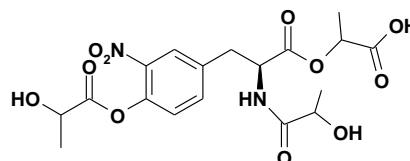
C₁₅H₁₆N₂O₁₁
MW 400.07



19-3575

2-[(2S)-2-(2-Hydroxypropanoylamino)-3-[4-(2-hydroxypropanoyloxy)-3-nitro-phenyl]propanoyl]oxypropanoic acid

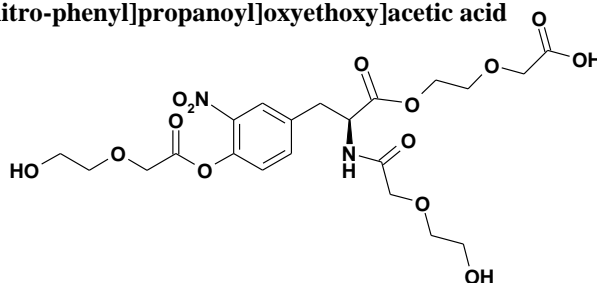
C₁₈H₂₂N₂O₁₁
MW 442.12



19-3576

2-[2-[(2S)-2-[[2-(2-Hydroxyethoxy)acetyl]amino]-3-[4-[2-(2-hydroxyethoxy)acetyl]oxy-3-nitro-phenyl]propanoyl]oxyethoxy]acetic acid

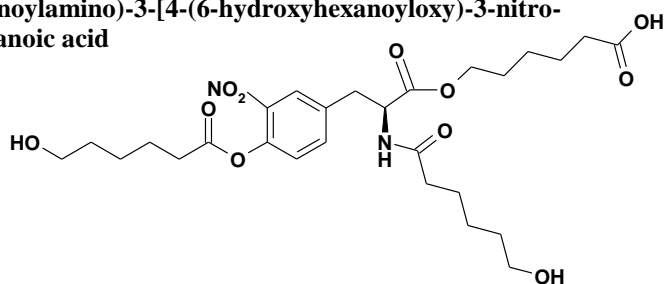
C₂₁H₂₈N₂O₁₄
MW 532.15



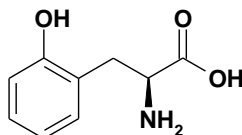
19-3577

6-[(2S)-2-(6-Hydroxyhexanoylamino)-3-[4-(6-hydroxyhexanoyloxy)-3-nitro-phenyl]propanoyl]oxyhexanoic acid

C₂₇H₄₀N₂O₁₁
MW 568.26

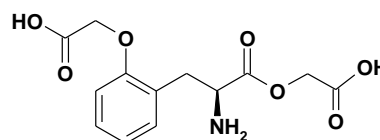


Functionalized Tyrosine Derivative

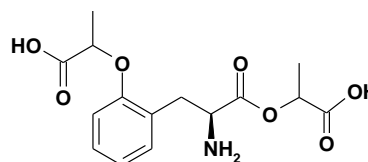


(2S)-2-Amino-3-(2-hydroxyphenyl)propanoic acid

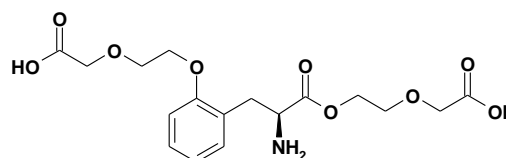
19-3578 2-[2-[(2S)-2-Amino-3-(carboxymethoxy)-3-oxo-propyl]phenoxy]acetic acid
C₁₃H₁₅NO₇
MW 297.26



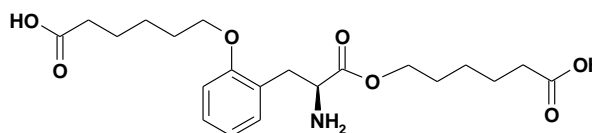
19-3579 2-[2-[(2S)-2-Amino-3-(2-hydroxy-1-methyl-2-oxo-ethoxy)-3-oxo-propyl]phenoxy]propanoic acid
C₁₅H₁₉NO₉
MW 325.11



19-3580 2-[2-[2-[(2S)-2-Amino-3-[2-(carboxymethoxy)ethoxy]-3-oxo-propyl]phenoxy]ethoxy]acetic acid
C₁₇H₂₃NO₉
MW 385.36



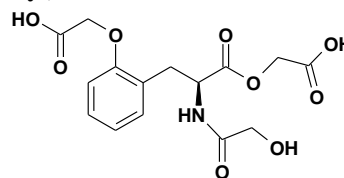
19-3581 6-[2-[(2S)-2-Amino-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]phenoxy]hexanoic acid
C₂₁H₃₁NO₇
MW 409.21



19-3582

2-[2-[(2S)-3-(Carboxymethoxy)-2-[(2-hydroxyacetyl)amino]-3-oxo-propyl]phenoxy]acetic acid

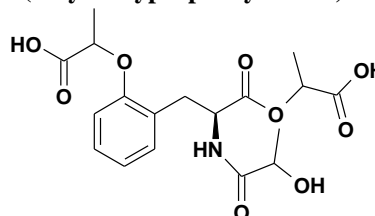
C₁₅H₁₇NO₉
MW 355.3



19-3583

2-[2-[(2S)-3-(2-Hydroxy-1-methyl-2-oxo-ethoxy)-2-(2-hydroxypropanoylamino)-3-oxo-propyl]phenoxy]propanoic acid

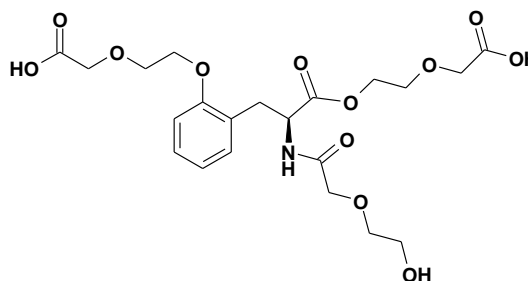
C₁₈H₂₃NO₉
MW 397.38



19-3584

2-[2-[2-[(2S)-3-[2-(Carboxymethoxy)ethoxy]-2-[[2-(2-hydroxyethoxy)acetyl]amino]-3-oxo-propyl]phenoxy]ethoxy]acetic acid

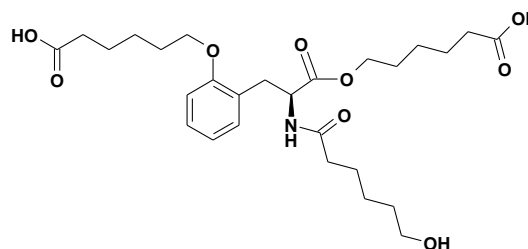
C₂₁H₂₉NO₁₂
MW 487.45



19-3585

6-[2-[(2S)-2-(6-Hydroxyhexanoylamino)-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]phenoxy]hexanoic acid

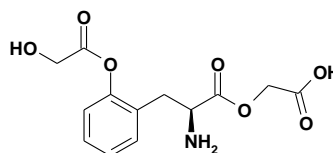
C₂₇H₄₁NO₉
MW 523.62



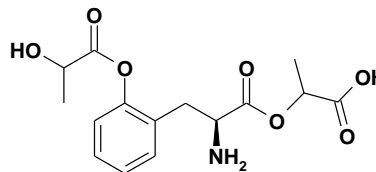
19-3586

2-[(2S)-2-Amino-3-[2-(2-hydroxyacetyl)oxyphenyl]propanoyl]oxyacetic acid

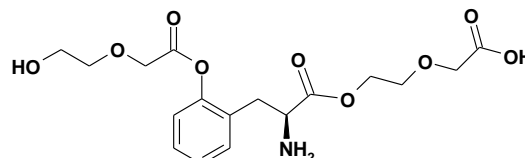
C₁₃H₁₅NO₇
MW 297.08



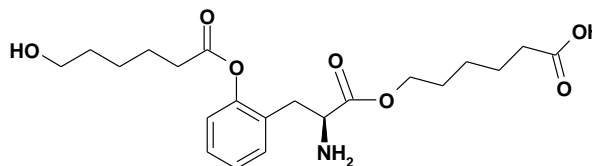
19-3587 2-[(2S)-2-Amino-3-[2-(2-hydroxypropanoyloxy)phenyl]propanoyl]oxypropanoic acid
C₁₅H₁₉NO₇
MW 325.11



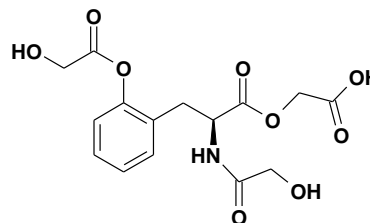
19-3588 2-[2-[(2S)-2-Amino-3-[2-[2-(2-hydroxyethoxy)acetyl]oxyphenyl]propanoyl]oxyethoxy]acetic acid
C₁₇H₂₃NO₉
MW 385.13



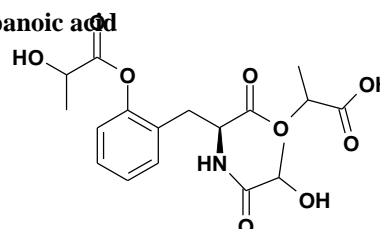
19-3589 6-[(2S)-2-Amino-3-[2-(6-hydroxyhexanoyloxy)phenyl]propanoyl]oxyhexanoic acid
C₂₁H₃₁NO₇
MW 409.21



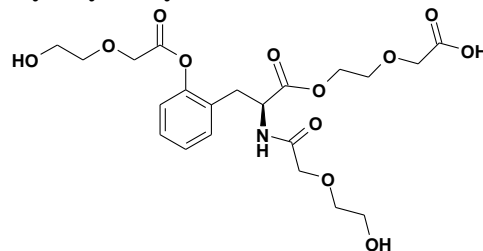
19-3590 2-[(2S)-2-[(2-Hydroxyacetyl)amino]-3-[2-(2-hydroxyacetyl)oxyphenyl]propanoyl]oxyacetic acid
C₁₅H₁₇NO₉
MW 355.09



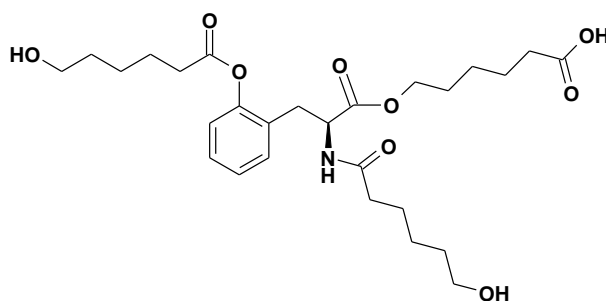
19-3591 2-[(2S)-2-(2-Hydroxypropanoylamino)-3-[2-(2-hydroxypropanoyloxy)phenyl]propanoyl]oxypropanoic acid
C₁₈H₂₃NO₉
MW 397.13



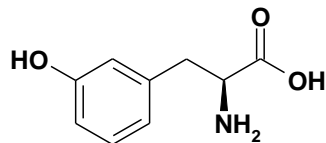
19-3592 2-[2-[(2S)-2-[[2-(2-Hydroxyethoxy)acetyl]amino]-3-[2-[2-(2-hydroxyethoxy)acetyl]oxyphenyl]propanoyl]oxyethoxy]acetic acid
C₂₁H₂₉NO₁₂
MW 487.16



19-3593 6-[(2S)-2-(6-Hydroxyhexanoylamino)-3-[2-(6-hydroxyhexanoyloxy)phenyl]propanoyl]oxyhexanoic acid
C₂₇H₄₁NO₉
MW 523.27



Functionalized Tyrosine Derivative

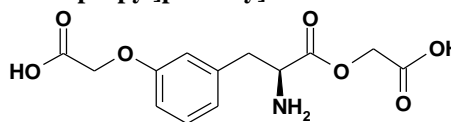


(2S)-2-Amino-3-(3-hydroxyphenyl)propanoic acid

19-3594

2-[3-[(2S)-2-Amino-3-(carboxymethoxy)-3-oxo-propyl]phenoxy]acetic acid

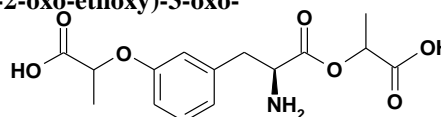
C₁₃H₁₅NO₇
MW 297.08



19-3595

2-[3-[(2S)-2-Amino-3-(2-hydroxy-1-methyl-2-oxo-ethoxy)-3-oxo-propyl]phenoxy]propanoic acid

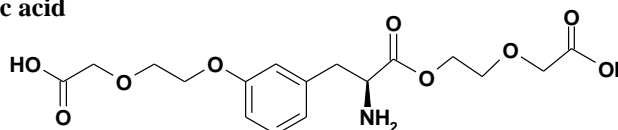
C₁₅H₁₉NO₇
MW 325.11



19-3596

2-[2-[3-[(2S)-2-Amino-3-[2-(carboxymethoxy)ethoxy]-3-oxo-propyl]phenoxy]ethoxy]acetic acid

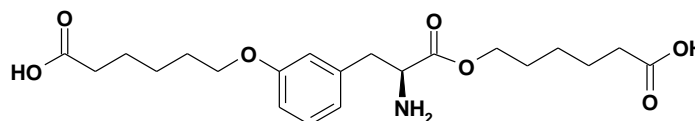
C₁₇H₂₃NO₉
MW 385.13



19-3597

6-[3-[(2S)-2-Amino-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]phenoxy] hexanoic acid

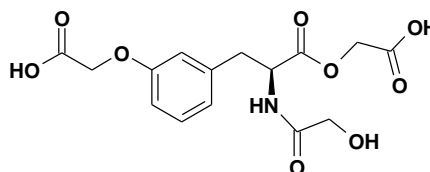
C₂₁H₃₁NO₇
MW 409.21



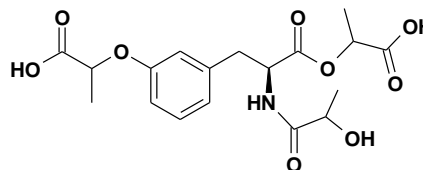
19-3598

2-[3-[(2S)-3-(Carboxymethoxy)-2-[(2-hydroxyacetyl)amino]-3-oxo-propyl]phenoxy]acetic acid

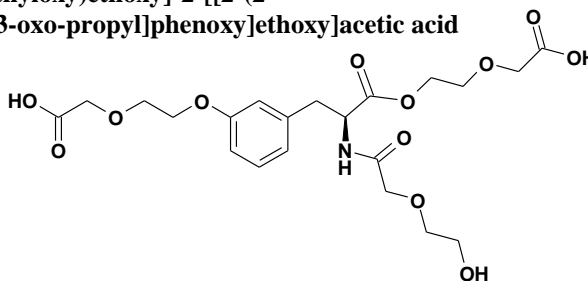
C₁₅H₁₇NO₉
MW 355.09



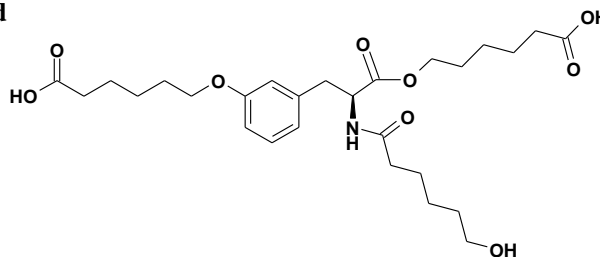
19-3599 **2-[3-[(2S)-3-(2-Hydroxy-1-methyl-2-oxo-ethoxy)-2-(2-hydroxypropanoylamino)-3-oxo-propyl]phenoxy]propanoic acid**
C₁₈H₂₃NO₉
MW 397.13



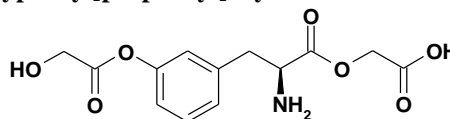
19-3600 **2-[2-[3-[(2S)-3-[2-(Carboxymethoxy)ethoxy]-2-[[2-(2-hydroxyethoxy)acetyl]amino]-3-oxo-propyl]phenoxy]ethoxy]acetic acid**
C₂₁H₂₉NO₁₂
MW 487.45



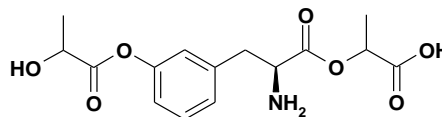
19-3601 **6-[3-[(2S)-2-(6-Hydroxyhexanoylamino)-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]phenoxy]hexanoic acid**
C₂₇H₄₁NO₉
MW 523.62



19-3602 **2-[(2S)-2-Amino-3-[3-(2-hydroxyacetyl)oxyphenyl]propanoyl]oxyacetic acid**
C₁₃H₁₅NO₇
MW 297.08

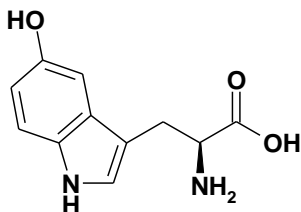


19-3603 **2-[(2S)-2-Amino-3-[3-(2-hydroxypropanoyloxy)phenyl]propanoyl]oxypropanoic acid**
C₁₅H₁₉NO₇
MW 325.11



19-3604	<p>2-[2-[(2S)-2-Amino-3-[3-[2-(2-hydroxyethoxy)acetyl]oxyphenyl]propanoyl]oxyethoxy]acetic acid C₁₇H₂₃NO₉ MW 385.13</p>	
19-3605	<p>6-[(2S)-2-Amino-3-[3-(6-hydroxyhexanoyloxy)phenyl]propanoyl]oxyhexanoic acid C₂₁H₃₁NO₇ MW 409.21</p>	
19-3606	<p>2-[(2S)-2-[(2-Hydroxyacetyl)amino]-3-[3-(2-hydroxyacetyl)oxyphenyl]propanoyl]oxyacetic acid C₁₅H₁₇NO₉ MW 355.09</p>	
19-3607	<p>2-[(2S)-2-(2-Hydroxypropanoylamino)-3-[3-(2-hydroxypropanoyloxy)phenyl]propanoyl]oxypropanoic acid C₁₈H₂₃NO₉ MW 397.13</p>	
19-3608	<p>2-[2-[(2S)-2-[[2-(2-Hydroxyethoxy)acetyl]amino]-3-[3-[2-(2-hydroxyethoxy)acetyl]oxyphenyl]propanoyl]oxyethoxy]acetic acid C₂₁H₂₉NO₁₂ MW 487.16</p>	
19-3609	<p>6-[(2S)-2-(6-Hydroxyhexanoylamino)-3-[3-(6-hydroxyhexanoyloxy)phenyl]propanoyl]oxyhexanoic acid C₂₇H₄₁NO₉ MW 523.07</p>	

Functionalized Tyrosine Derivative

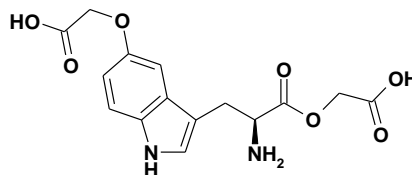


(2S)-2-amino-3-(5-hydroxy-1H-indol-3-yl) propanoic acid

19-3610

2-[[3-[(2S)-2-Amino-3-(carboxymethoxy)-3-oxo-propyl]-1H-indol-5-yl]oxy]acetic acid

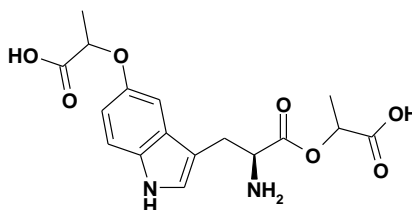
C₁₅H₁₆N₂O₇
MW 336.09



19-3611

2-[[3-[(2S)-2-Amino-3-(2-hydroxy-1-methyl-2-oxo-ethoxy)-3-oxo-propyl]-1H-indol-5-yl]oxy]propanoic acid

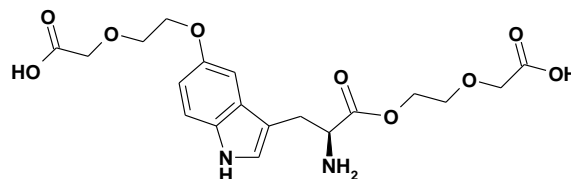
C₁₇H₂₀N₂O₇
MW 364.12



19-3612

2-[2-[[3-[(2S)-2-Amino-3-[2-(carboxymethoxy)ethoxy]-3-oxo-propyl]-1H-indol-5-yl]oxy]ethoxy]acetic acid

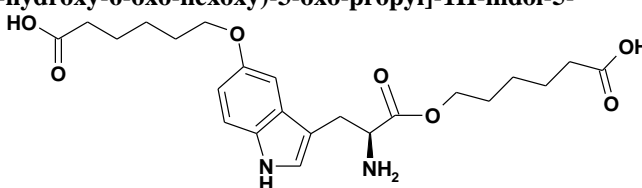
C₁₉H₂₄N₂O₉
MW 424.14



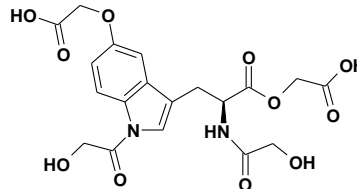
19-3613

6-[[3-[(2S)-2-Amino-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]-1H-indol-5-yl]oxy]hexanoic acid

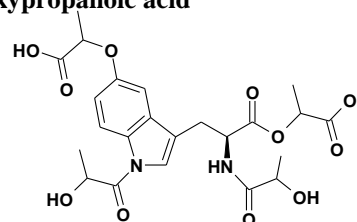
C₂₃H₃₂N₂O₇
MW 448.22



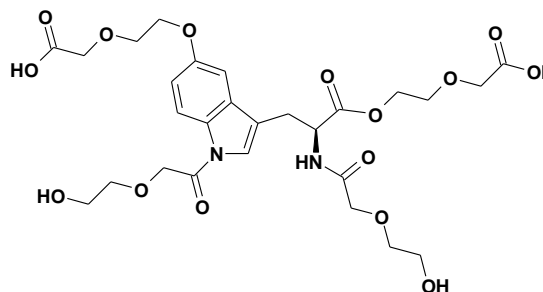
19-3614 **2-[3-[(2S)-3-(Carboxymethoxy)-2-[(2-hydroxyacetyl)amino]-3-oxo-propyl]-1-(2-hydroxyacetyl)indol-5-yl]oxyacetic acid**
C₁₉H₂₀N₂O₁₁
MW 452.1



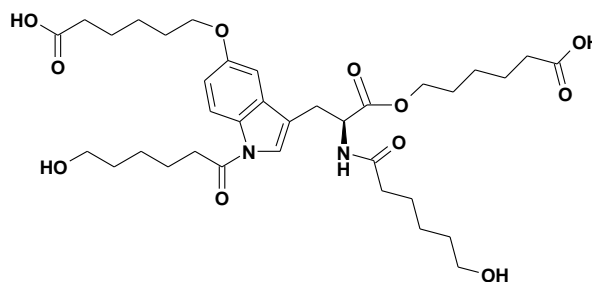
19-3615 **2-[3-[(2S)-3-(2-Hydroxy-1-methyl-2-oxo-ethoxy)-2-(2-hydroxypropanoylamino)-3-oxo-propyl]-1-(2-hydroxypropanoyl)indol-5-yl]oxypropanoic acid**
C₂₃H₂₈N₂O₁₁
MW 508.48



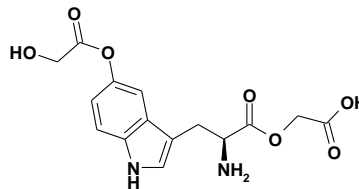
19-3616 **2-[2-[3-[(2S)-3-[2-(Carboxymethoxy)ethoxy]-2-[[2-(2-hydroxyethoxy)acetyl]amino]-3-oxo-propyl]-1-[2-(2-hydroxyethoxy)acetyl]indol-5-yl]oxyethoxy]acetic acid**
C₂₇H₃₆N₂O₁₅
MW 628.58



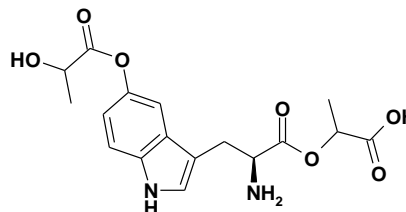
19-3617 **6-[1-(6-Hydroxyhexanoyl)-3-[(2S)-2-(6-hydroxyhexanoylamino)-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]indol-5-yl]oxyhexanoic acid**
C₃₅H₅₂N₂O₁₁
MW 676.35



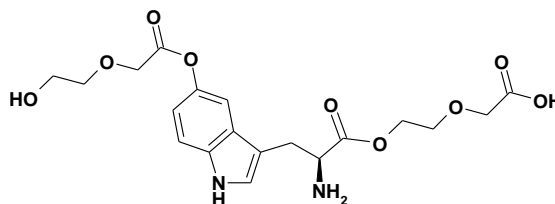
19-3618 **2-[(2S)-2-Amino-3-[5-(2-hydroxyacetyl)oxy-1H-indol-3-yl]propanoyl]oxyacetic acid**
C₁₅H₁₆N₂O₇
MW 336.09



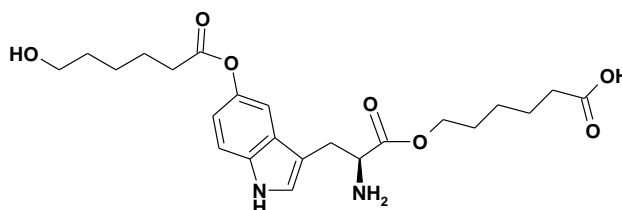
19-3619 **2-[(2S)-2-Amino-3-[5-(2-hydroxypropanoyloxy)-1H-indol-3-yl]propanoyl]oxypropanoic acid**
C₁₇H₂₀N₂O₇
MW 364.12



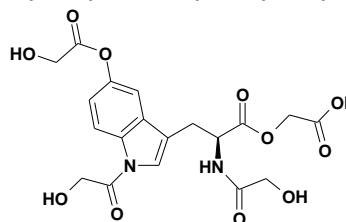
19-3620 **2-[2-[(2S)-2-Amino-3-[5-[2-(2-hydroxyethoxy)acetyl]oxy-1H-indol-3-yl]propanoyl]oxyethoxy]acetic acid**
C₁₉H₂₄N₂O₉
MW 424.14



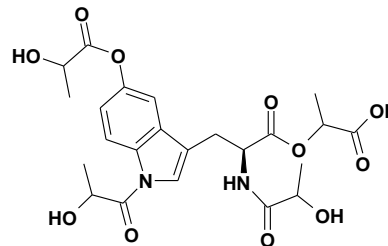
19-3621 **6-[(2S)-2-Amino-3-[5-(6-hydroxyhexanoyloxy)-1H-indol-3-yl]propanoyl]oxyhexanoic acid**
C₂₃H₃₂N₂O₇
MW 448.22



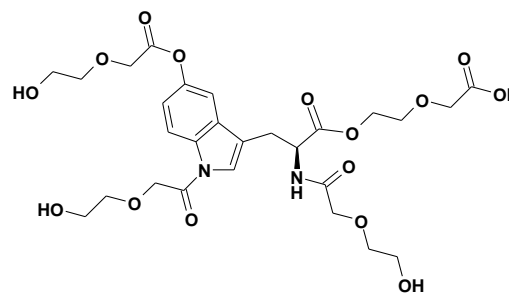
19-3622 **2-[(2S)-2-[(2-Hydroxyacetyl)amino]-3-[1-(2-hydroxyacetyl)-5-(2-hydroxyacetyl)oxy-indol-3-yl]propanoyl]oxyacetic acid**
C₁₉H₂₀N₂O₁₁
MW 452.1



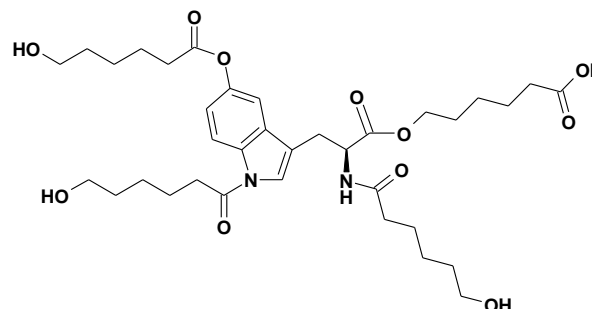
19-3623 2-[(2S)-2-(2-Hydroxypropanoylamino)-3-[1-(2-hydroxypropanoyl)-5-(2-hydroxypropanoyloxy)indol-3-yl]propanoyl]oxypropanoic acid
C₂₃H₂₈N₂O₁₁
MW 508.16



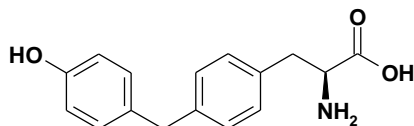
19-3624 2-[2-[(2S)-2-[[2-(2-Hydroxyethoxy)acetyl]amino]-3-[1-[2-(2-hydroxyethoxy)acetyl]-5-[2-(2-hydroxyethoxy)acetyl]oxy-indol-3-yl]propanoyl]oxyethoxy]acetic acid
C₂₇H₃₆N₂O₁₅
MW 628.21



19-3625 6-[(2S)-2-(6-Hydroxyhexanoylamino)-3-[1-(6-hydroxyhexanoyl)-5-(6-hydroxyhexanoyloxy)indol-3-yl]propanoyl]oxyhexanoic acid
C₃₅H₅₂N₂O₁₁
MW 676.35

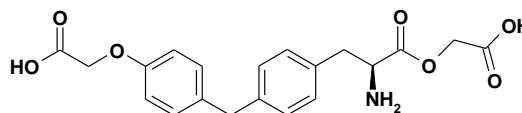


Functionalized Tyrosine Derivative

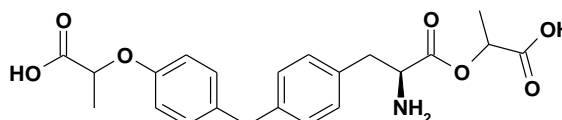


(2S)-2-Amino-3-[4-[(4-hydroxyphenyl)methyl]phenyl]propanoic acid

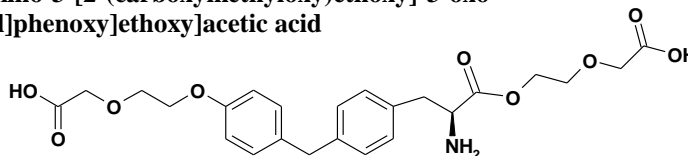
19-3626 2-[4-[[4-[(2S)-2-Amino-3-(carboxymethoxy)-3-oxo-propyl]phenyl]methyl]phenoxy]acetic acid
C₂₀H₂₁NO₇
MW 387.13



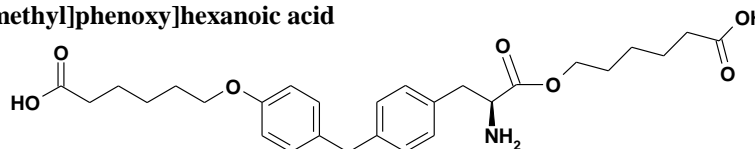
19-3627 2-[4-[[4-[(2S)-2-Amino-3-(2-hydroxy-1-methyl-2-oxo-ethoxy)-3-oxo-propyl]phenyl]methyl]phenoxy]propanoic acid
C₂₂H₂₅NO₇
MW 415.44



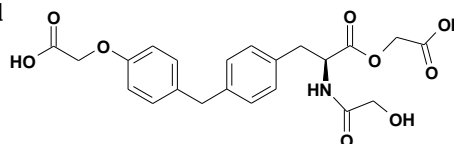
19-3628 2-[2-[4-[[4-[(2S)-2-Amino-3-[2-(carboxymethoxy)ethoxy]-3-oxo-propyl]phenyl]methyl]phenoxy]ethoxy]acetic acid
C₂₄H₂₉NO₉
MW 475.18



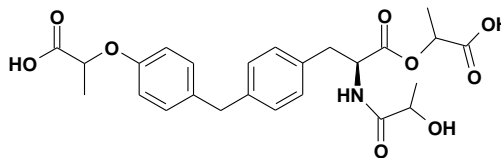
19-3629 6-[4-[[4-[(2S)-2-Amino-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]phenyl]methyl]phenoxy]hexanoic acid
C₂₈H₃₇NO₇
MW 499.25



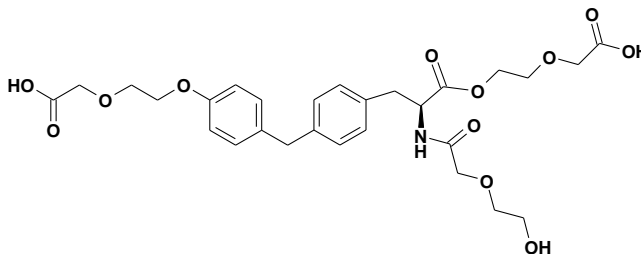
19-3630 2-[4-[[4-[(2S)-3-(Carboxymethoxy)-2-[(2-hydroxyacetyl)amino]-3-oxo-propyl]phenyl]methyl]phenoxy]acetic acid
C₂₂H₂₃NO₉
MW 445.13



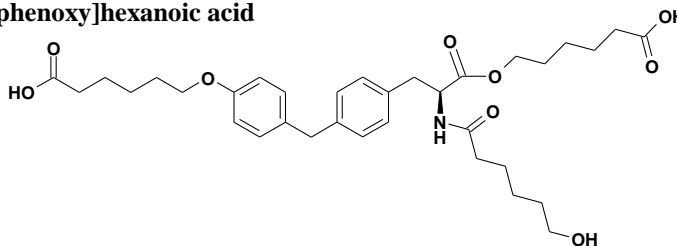
19-3631 **2-[4-[[4-[(2S)-3-(2-Hydroxy-1-methyl-2-oxo-ethoxy)-2-(2-hydroxypropanoylamino)-3-oxo-propyl]phenyl]methyl]phenoxy]propanoic acid**
C₂₅H₂₉NO₉
MW 487.18



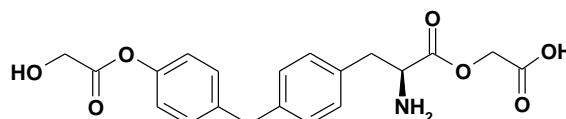
19-3632 **2-[2-[4-[[4-[(2S)-3-[2-(Carboxymethoxy)ethoxy]-2-[[2-(2-hydroxyethoxy)acetyl]amino]-3-oxo-propyl]phenyl]methyl]phenoxy]ethoxy]acetic acid**
C₂₈H₃₅NO₁₂
MW 577.21



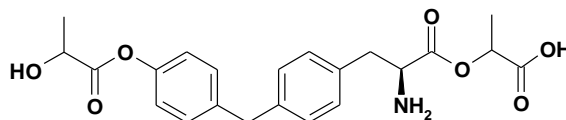
19-3633 **6-[4-[[4-[(2S)-2-(6-Hydroxyhexanoylamino)-3-(6-hydroxy-6-oxo-hexoxy)-3-oxo-propyl]phenyl]methyl]phenoxy]hexanoic acid**
C₃₄H₄₇NO₉
MW 613.32



19-3634 **2-[(2S)-2-Amino-3-[4-[[4-(2-hydroxyacetyl)oxyphenyl]methyl]phenyl]propanoyl]oxyacetic acid**
C₂₀H₂₁NO₇
MW 387.13



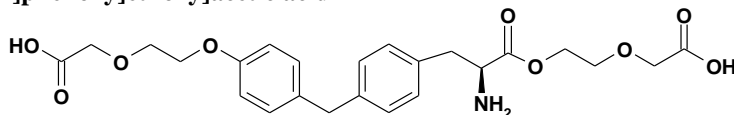
19-3635 **2-[(2S)-2-Amino-3-[4-[[4-(2-hydroxypropanoyloxy)phenyl]methyl]phenyl]propanoyl]oxypropanoic acid**
C₂₂H₂₅NO₇
MW 415.16



19-3636

2-[2-[4-[[4-[(2S)-2-Amino-3-[2-(carboxymethoxy)ethoxy]-3-oxo-propyl]phenyl]methyl]phenoxy]ethoxy]acetic acid

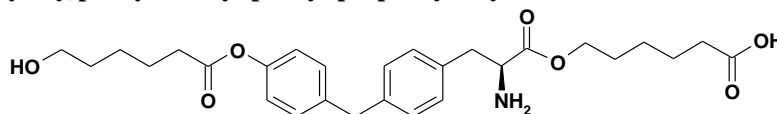
C₂₄H₂₉NO₉
MW 475.18



19-3637

6-[(2S)-2-Amino-3-[4-[[4-(6-hydroxyhexanoyloxy)phenyl]methyl]phenyl]propanoyl]oxyhexanoic acid

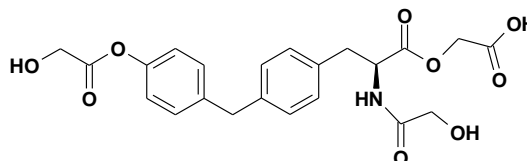
C₂₈H₃₇NO₇
MW 499.25



19-3638

2-[(2S)-2-[(2-Hydroxyacetyl)amino]-3-[4-[[4-(2-hydroxyacetyl)oxyphenyl]methyl]phenyl]propanoyl]oxyacetic acid

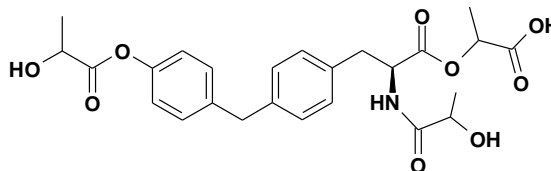
C₂₂H₂₃NO₉
MW 445.13



19-3639

2-[(2S)-2-(2-Hydroxypropanoylamino)-3-[4-[[4-(2-hydroxypropanoyloxy)phenyl]methyl]phenyl]propanoyl]oxypropanoic acid

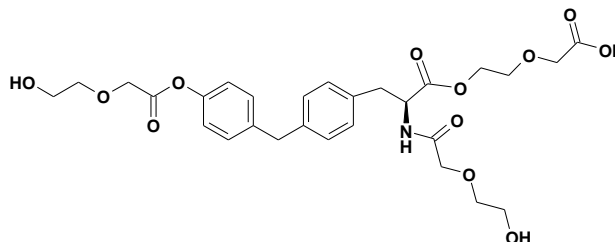
C₂₅H₂₉NO₉
MW 487.18



19-3640

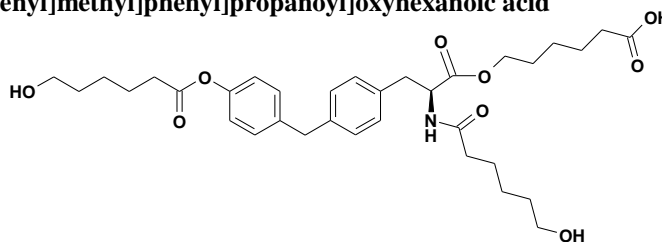
2-[2-[4-[[4-[(2S)-3-[2-(Carboxymethoxy)ethoxy]-2-[[2-(2-hydroxyethoxy)acetyl]amino]-3-oxo-propyl]phenyl]methyl]phenoxy]ethoxy]acetic acid

C₂₈H₃₅NO₁₂
MW 577.21

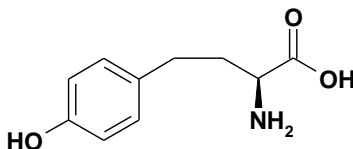


19-3641

6-[(2S)-2-(6-Hydroxyhexanoylamino)-3-[4-[[4-(6-hydroxyhexanoyloxy)phenyl]methyl]phenyl]propanoyl]oxyhexanoic acid
C₃₄H₄₇NO₉
MW 613.32



Functionalized Tyrosine Derivative



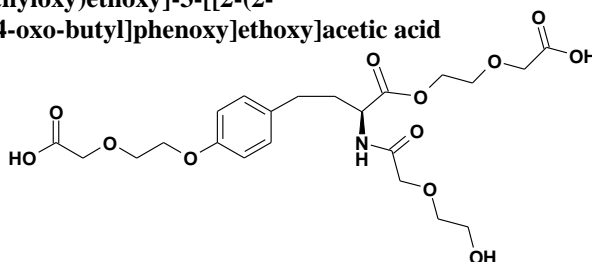
(2S)-2-amino-4-(4-hydroxyphenyl) butanoic acid

19-3642	2-[4-[(3S)-3-Amino-4-(carboxymethoxy)-4-oxo-butyl]phenoxy]acetic acid C ₁₄ H ₁₇ NO ₇ MW 311.1	
19-3643	2-[4-[(3S)-3-Amino-4-(2-hydroxy-1-methyl-2-oxo-ethoxy)-4-oxo-butyl]phenoxy]propanoic acid C ₁₆ H ₂₁ NO ₇ MW 339.13	
19-3644	2-[2-[4-[(3S)-3-Amino-4-[2-(carboxymethoxy)ethoxy]-4-oxo-butyl]phenoxy]ethoxy]acetic acid C ₁₈ H ₂₅ NO ₉ MW 399.15	
19-3645	6-[4-[(3S)-3-Amino-4-(6-hydroxy-6-oxo-hexoxy)-4-oxo-butyl]phenoxy]hexanoic acid C ₂₂ H ₂₃ NO ₇ MW 423.22	
19-3646	2-[4-[(3S)-4-(Carboxymethoxy)-3-[(2-hydroxyacetyl)amino]-4-oxo-butyl]phenoxy]acetic acid C ₁₆ H ₁₉ NO ₉ MW 369.1	
19-3647	2-[4-[(3S)-4-(2-Hydroxy-1-methyl-2-oxo-ethoxy)-3-(2-hydroxypropanoylamino)-4-oxo-butyl]phenoxy]propanoic acid C ₁₉ H ₂₅ NO ₉ MW 411.15	

19-3648

2-[2-[4-[(3S)-4-[2-(Carboxymethoxy)ethoxy]-3-[[2-(2-hydroxyethoxy)acetyl]amino]-4-oxo-butyl]phenoxy]ethoxy]acetic acid

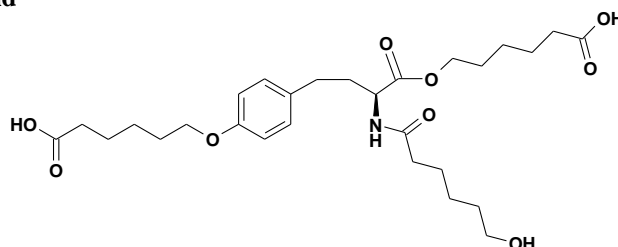
C₂₂H₃₁NO₁₂
MW 501.18



19-3649

6-[4-[(3S)-3-(6-Hydroxyhexanoylamino)-4-(6-hydroxy-6-oxo-hexoxy)-4-oxo-butyl]phenoxy]hexanoic acid

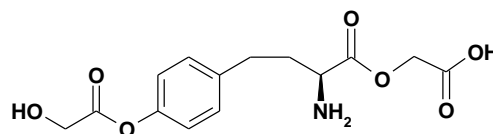
C₂₈H₄₃NO₉
MW 537.29



19-3650

2-[(2S)-2-Amino-4-[4-(2-hydroxyacetyl)oxyphenyl]butanoyl]oxyacetic acid

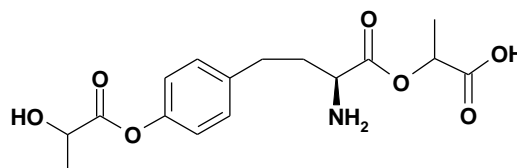
C₁₄H₁₇NO₇
MW 311.1



19-3651

2-[(2S)-2-Amino-4-[4-(2-hydroxypropanoyloxy)phenyl]butanoyl]oxypropanoic acid

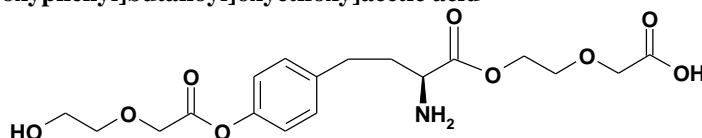
C₁₆H₂₁NO₇
MW 339.13



19-3652

2-[2-[4-[(2S)-2-Amino-4-[4-[2-(2-hydroxyethoxy)acetyl]oxyphenyl]butanoyl]oxyethoxy]acetic acid

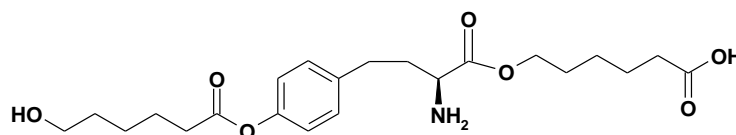
C₁₈H₂₅NO₉
MW 399.15



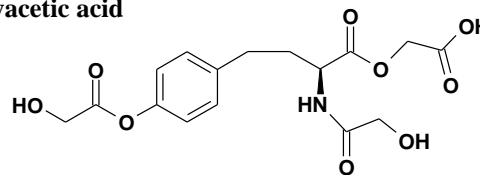
19-3653

6-[(2S)-2-Amino-4-[4-(6-hydroxyhexanoyloxy)phenyl]butanoyl]oxyhexanoic acid

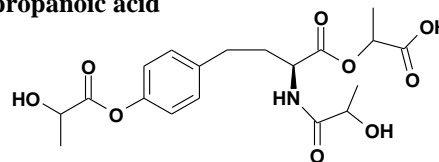
C₂₂H₃₃NO₇
MW 423.22



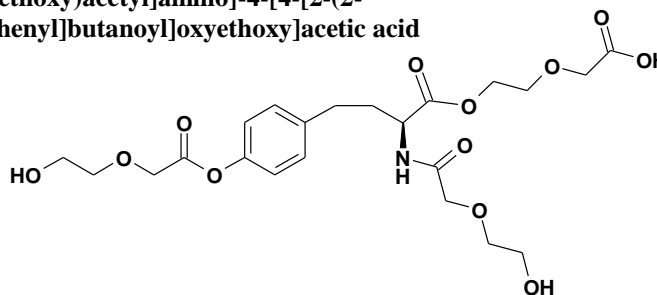
19-3654 2-[(2S)-2-[(2-Hydroxyacetyl)amino]-4-[4-(2-hydroxyacetyl)oxyphenyl]butanoyl]oxyacetic acid
C₁₆H₁₉NO₉
MW 369.1



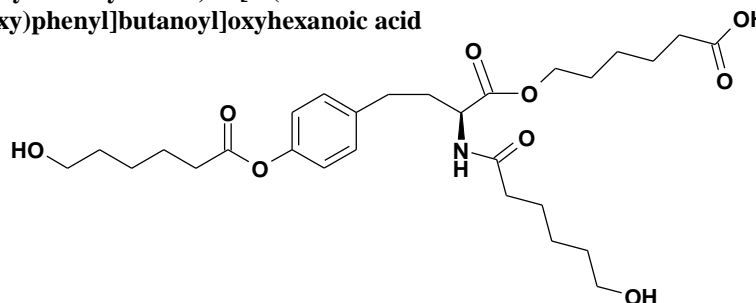
19-3655 2-[(2S)-2-(2-Hydroxypropanoylamino)-4-[4-(2-hydroxypropanoyloxy)phenyl]butanoyl]oxypropanoic acid
C₁₉H₂₅NO₉
MW 411.15



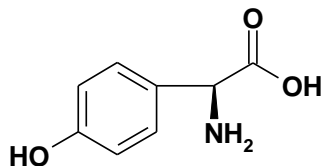
19-3656 2-[2-[(2S)-2-[[2-(2-Hydroxyethoxy)acetyl]amino]-4-[4-[2-(2-hydroxyethoxy)acetyl]oxyphenyl]butanoyl]oxyethoxy]acetic acid
C₂₂H₃₁NO₁₂
MW 501.48



19-3657 6-[(2S)-2-(6-Hydroxyhexanoylamino)-4-[4-(6-hydroxyhexanoyloxy)phenyl]butanoyl]oxyhexanoic acid
C₂₈H₄₃NO₉
MW 537.29



Functionalized Tyrosine Derivative



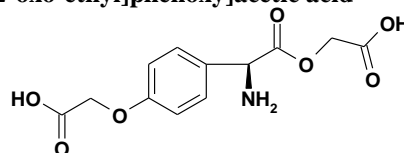
(2S)-2-Amino-2-(3-hydroxyphenyl)acetic acid

19-3658

2-[4-[(1S)-1-Amino-2-(carboxymethoxy)-2-oxo-ethyl]phenoxy]acetic acid

C₁₂H₁₃NO₇

MW 283.09

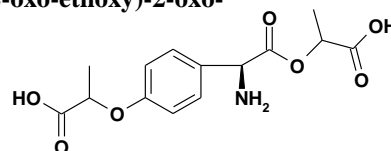


19-3659

2-[4-[(1S)-1-Amino-2-(2-hydroxy-1-methyl-2-oxo-ethoxy)-2-oxo-ethyl]phenoxy]propanoic acid

C₁₄H₁₇NO₇

MW 311.29

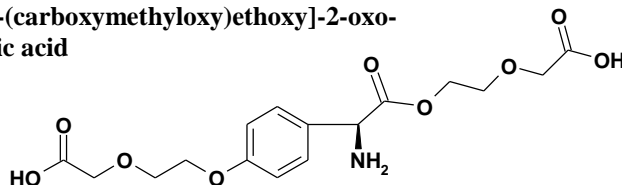


19-3660

2-[2-[4-[(1S)-1-Amino-2-[2-(carboxymethoxy)ethoxy]-2-oxo-ethyl]phenoxy]ethoxy]acetic acid

C₁₆H₂₁NO₉

MW 371.12

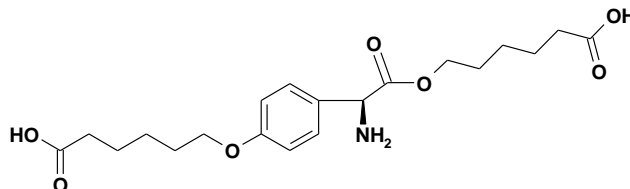


19-3661

6-[4-[(1S)-1-Amino-2-(6-hydroxy-6-oxo-hexoxy)-2-oxo-ethyl]phenoxy]hexanoic acid

C₂₀H₂₉NO₇

MW 395.45

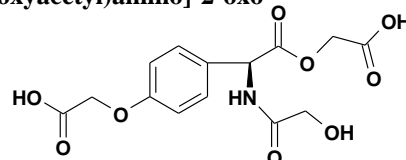


19-3662

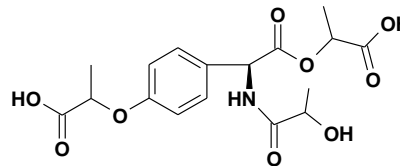
2-[4-[(1S)-2-(Carboxymethoxy)-1-[(2-hydroxyacetyl)amino]-2-oxo-ethyl]phenoxy]acetic acid

C₁₄H₁₅NO₉

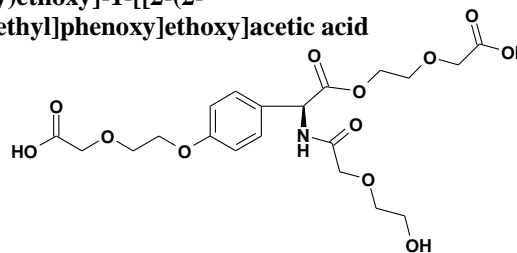
MW 341.07



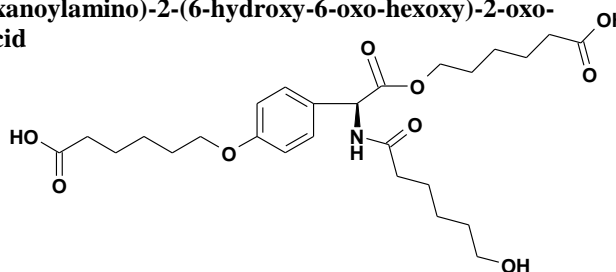
19-3663 2-[4-[(1S)-2-(2-Hydroxy-1-methyl-2-oxo-ethoxy)-1-(2-hydroxypropanoylamino)-2-oxo-ethyl]phenoxy]propanoic acid
C₁₇H₂₁NO₉
MW 383.12



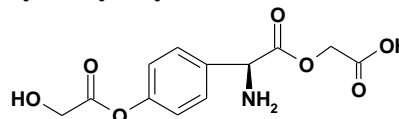
19-3664 2-[2-[4-[(1S)-2-[2-(Carboxymethoxy)ethoxy]-1-[[2-(2-hydroxyethoxy)acetyl]amino]-2-oxo-ethyl]phenoxy]ethoxy]acetic acid
C₂₀H₂₇NO₁₂
MW 473.15



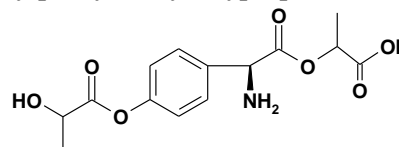
19-3665 6-[4-[(1S)-1-(6-Hydroxyhexanoylamino)-2-(6-hydroxy-6-oxo-hexoxy)-2-oxo-ethyl]phenoxy] hexanoic acid
C₂₆H₃₉NO₉
MW 509.59



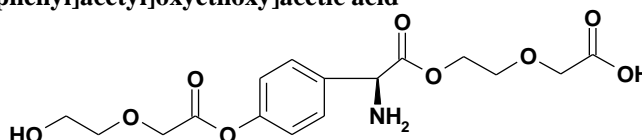
19-3666 2-[(2S)-2-Amino-2-[4-(2-hydroxyacetyl)oxyphenyl]acetyl]oxyacetic acid
C₁₂H₁₃NO₇
MW 283.06



19-3667 2-[(2S)-2-Amino-2-[4-(2-hydroxypropanoyloxy)phenyl]acetyl]oxypropanoic acid
C₁₄H₁₇NO₇
MW 311.10



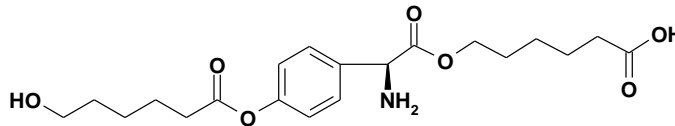
19-3668 2-[2-[(2S)-2-Amino-2-[4-[2-(2-hydroxyethoxy)acetyl]oxyphenyl]acetyl]oxyethoxy]acetic acid
C₁₆H₂₁NO₉
MW 371.12



19-3669

6-[(2S)-2-Amino-2-[4-(6-hydroxyhexanoyloxy)phenyl]acetyl]oxyhexanoic acid

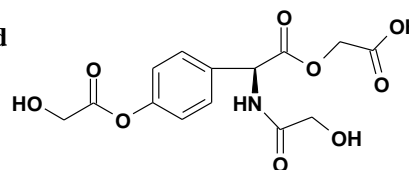
C₂₀H₂₉NO₇
MW 395.19



19-3670

2-[(2S)-2-[(2-Hydroxyacetyl)amino]-2-[4-(2-hydroxyacetyl)oxyphenyl]acetyl]oxyacetic acid

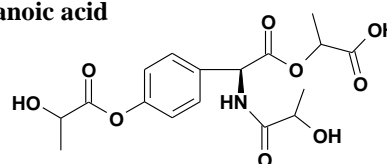
C₁₄H₁₅NO₉
MW 341.07



19-3671

2-[(2S)-2-(2-Hydroxypropanoylamino)-2-[4-(2-hydroxypropanoyloxy)phenyl]acetyl]oxypropanoic acid

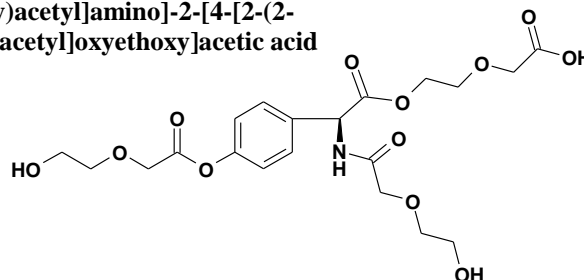
C₁₇H₂₁NO₉
MW 383.12



19-3672

2-[2-[(2S)-2-[[2-(2-Hydroxyethoxy)acetyl]amino]-2-[4-[2-(2-hydroxyethoxy)acetyl]oxyphenyl]acetyl]oxyethoxy]acetic acid

C₂₀H₂₇NO₁₂
MW 473.15



19-3673

6-[(2S)-2-(6-Hydroxyhexanoylamino)-2-[4-(6-hydroxyhexanoyloxy)phenyl]acetyl]oxyhexanoic acid

C₂₆H₃₉NO₉
MW 509.26

